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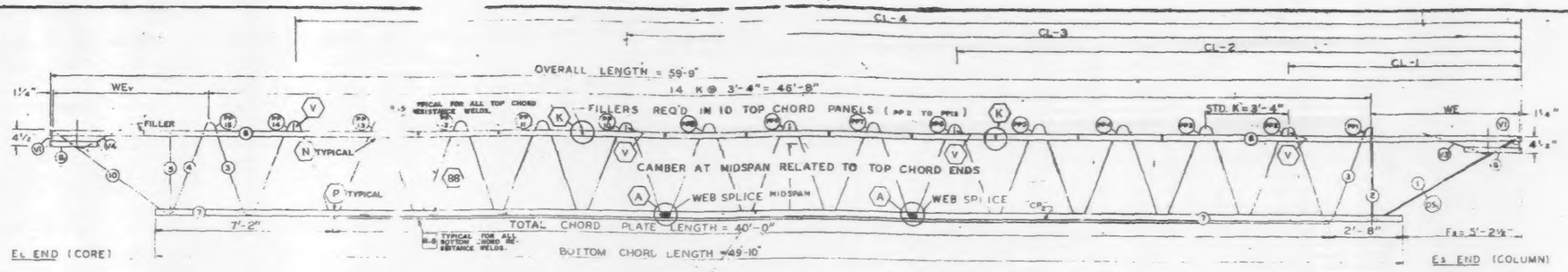
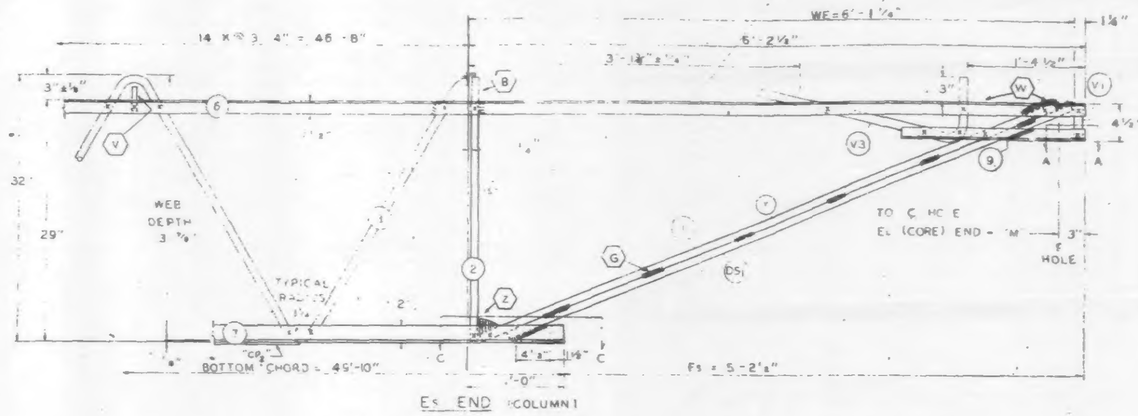
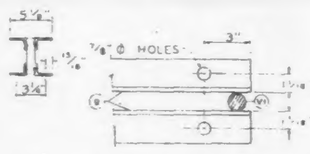
WTC1-181-LERA



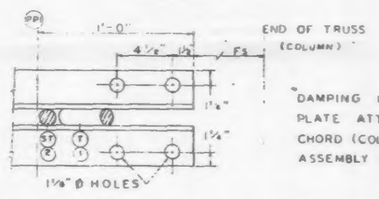
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2⅛"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	3 7/8"	± 1/4"





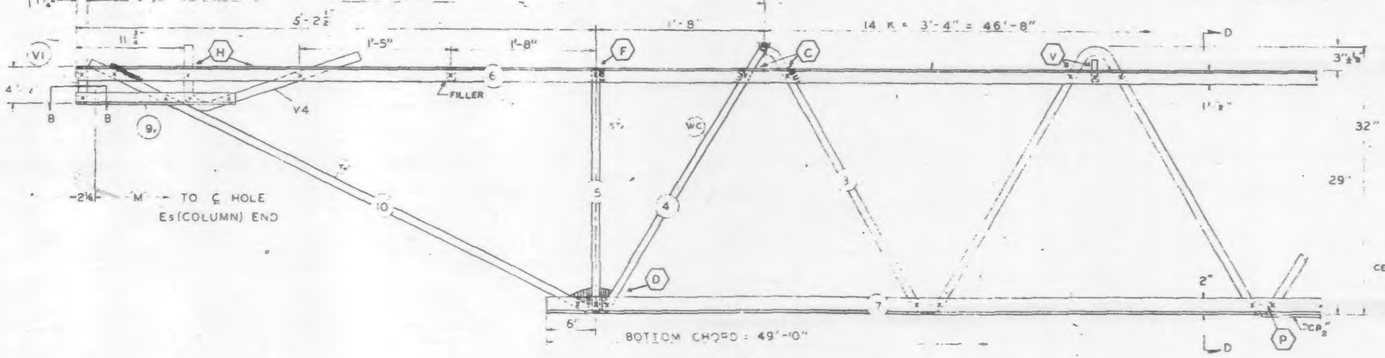
SECTION A-A

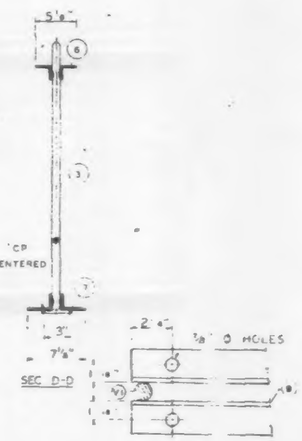


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (*)
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES (typ.).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

"DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





SEC D-D

SECTION B-B

⚠	6-22-68	GENERAL	T.M.C.
⚠	5-27-68	T. LENGTH, WELD, CHORD PLATE	T.M.C.
NO.	DATE	REVISION	BY

REF DRWGS

7-A81-4	4-15-68
7-A80-52	2-15-68
7-A81-53	4-1-68
7-A84-50 & 50.2	10-20-67
7-A83-2	1-3-68
7-A84-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
REG NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1½"x.31	59-9"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2⅛"	14 @ 3'-4" = 46'-8"	11	1.09	59-3 3/4"	4	1.09"	3"	CP2	A36	⅛x3	40'-0"

⚠

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

COLUMN END

E2 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA	MK. V2 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T7A-599	9	A242	2"x1½"x.25	2'-0"	6'-1"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅜"	A36	1.09	4 3/8"	A36	1.09	2'-9½"	DS1	A242	92	6'-3⅛"

⚠ ⚠

CORE END

E1 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER								WEB "WC"				WEB "WT"			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T7A-599	9y	A242	2"x1½"x.25	1'-7"	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4 3/8"	—	—	—	A 242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	—	—	—	—	—

STEEL TRUSS DETAILS

FOR

WORLD TRADE CENTER

FOR

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7A — 59'-9" OVERALL

WORLD TRADE CENTER TOWER A+B

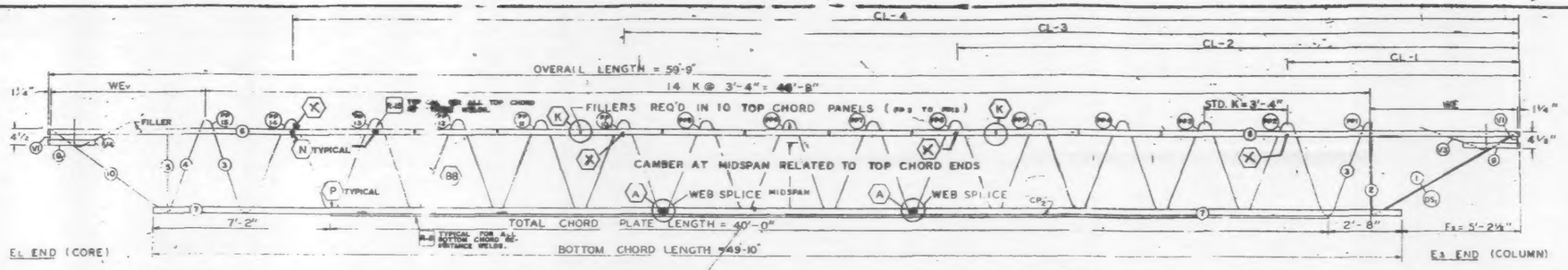
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS — LAYOUT DRAWING NO. 7-A81-4 7-A83-2 PLATE

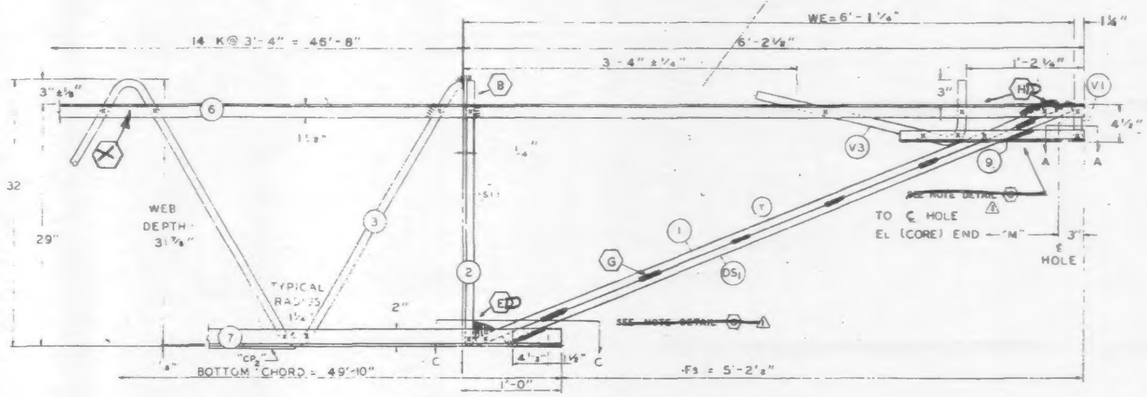
APPROVED FOR FABRICATION BY JW FOR POWA — DATE 6/25/68 — DRAWN BY [illegible] DATE APR. 18, 1968

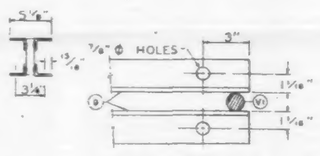
APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE — CHECKED BY T.M. CHURA DATE APR. 18, 1968 — IN CHARGE OF PROD. DEV.

DETAILED BY A.C. WEBER — FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. ST207A

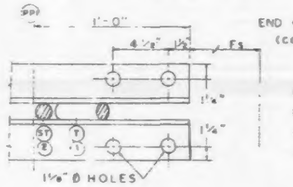


TRUSS ELEVATION





SECTION A-A

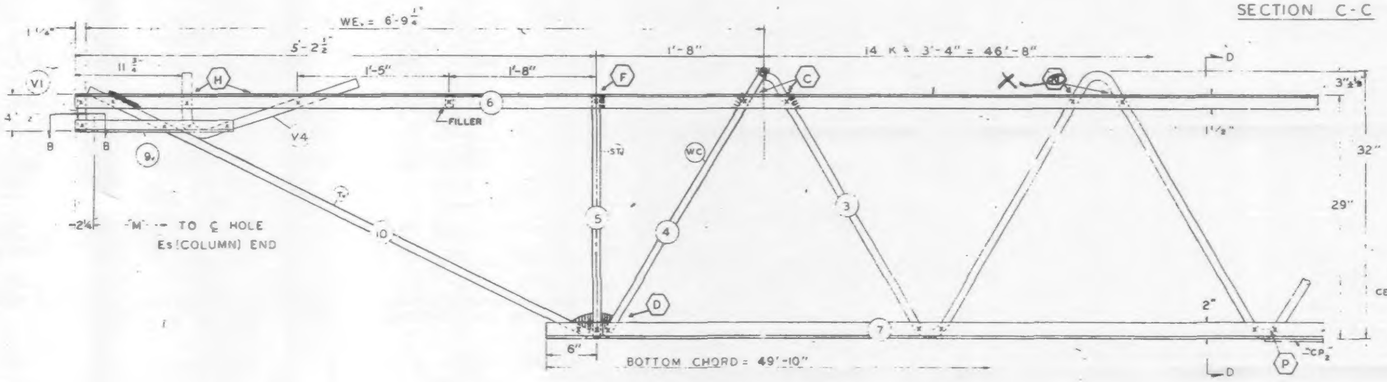


SECTION C-C

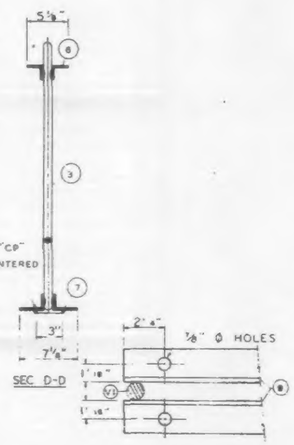
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES (minimum).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SEC D-D

SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA				MK.	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1'-2"x .31	59'-9"	7	A36	3"x 2" x .33	49'-10"	3	A36	1.09	87'-2 1/2"	14 @ 3'-4" = 46'-8"	11	1.09	59-3 3/8"			CP2	A36	7/16"x3"	40'-0"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/2"	36'-2 1/8"	49'-6 1/8"	5'-2 1/8"

COLUMN END

E3 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T7A-599	9	A242	2"x1'-2"x .25	1'-10"	6'-1' 4"	1	A 36	1.09	6'-3 1/8"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 3/8"	A36	1.09	2'-9 1/8"	DS1	A242	75	6'-3 1/8"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				STIFFENER MK. V1			MK. V2			MK. V4			WEB "WC"				WEB "WT"			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T7A-599	9	A242	2"x1 1/2"x .25	1'-7"	6-9 1/4"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 5/8"	A242	1.14	4 3/8"	—	—	—	A 242	1.14	2'-3 1/2"	4	A242	1	1.14	3'-0 1/2"	—	—	—	—	—

NO.	DATE	REVISION	BY
1	5-27-68	T. LENGTH, WELD, CHORD PLATE	T.M.C.

6/13/68 WAB

REF DRWGS

7-ABI-4	4-15-68
7-ABI-52	2-15-68
7-ABI-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

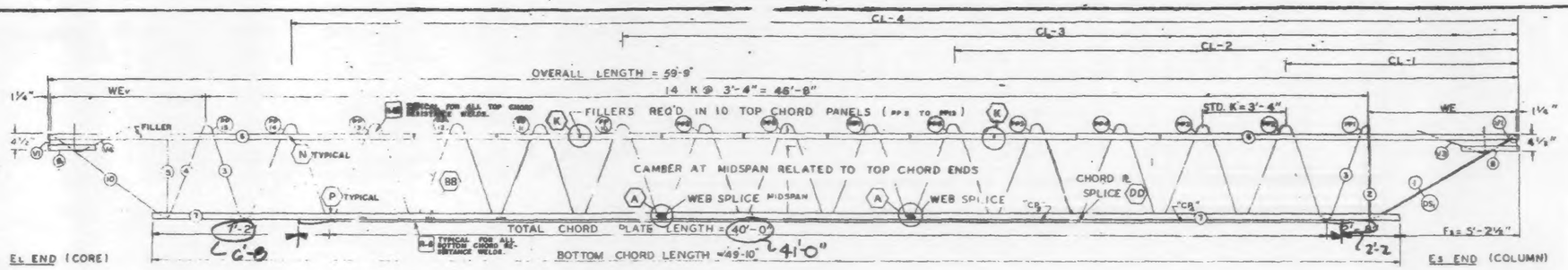
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7A — 59'-9" OVERALL

WORLD TRADE CENTER TOWER A-B

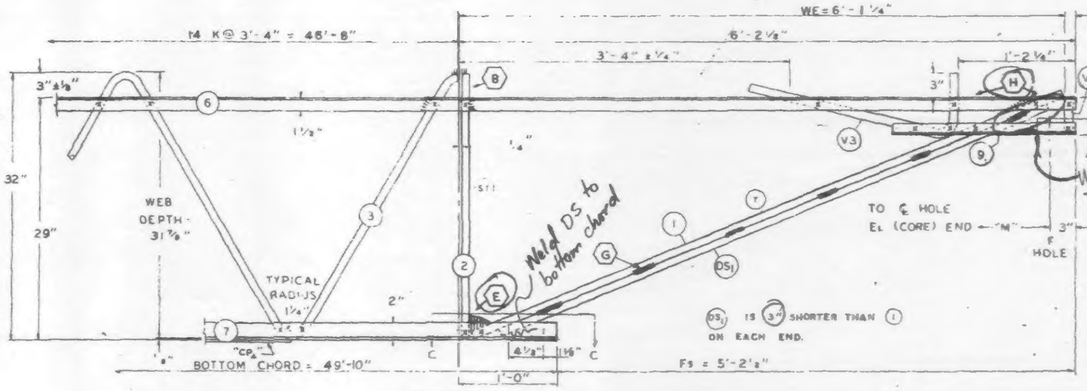
FABRICATION BY LACLEDE STEEL COMPANY

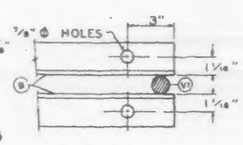
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-ABI-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA — DATE
DRAWN BY WAB — DATE APR. 10, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
CHECKED BY T.M. CHUBA — DATE APR. 12, 1968 — IN CHARGE OF PROD DEV
DETAILED BY LACLEDE STEEL CO
FABRICATION CONT NO WTC 221
SHEET NO ST207A



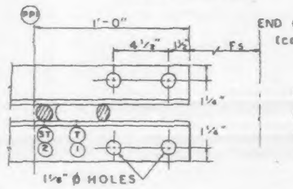
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/8"





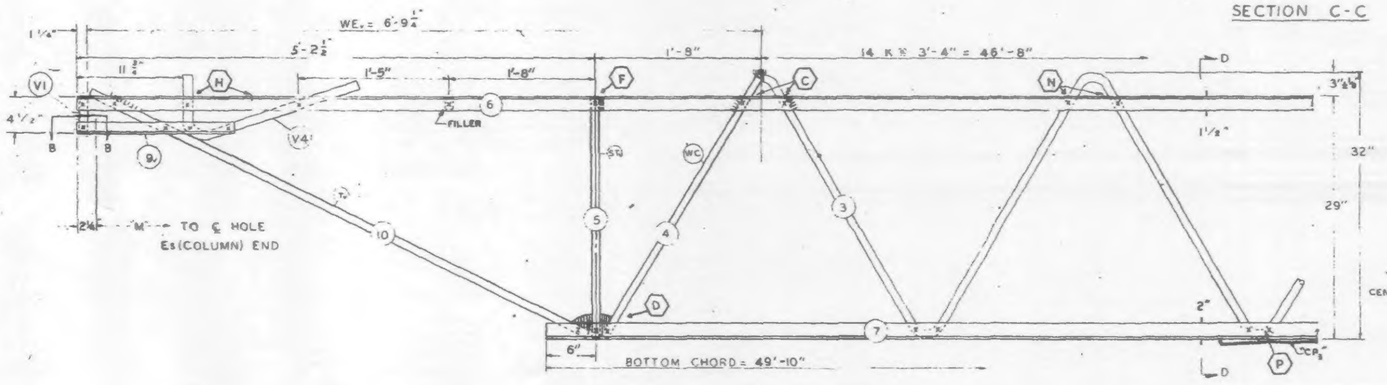
SECTION A-A



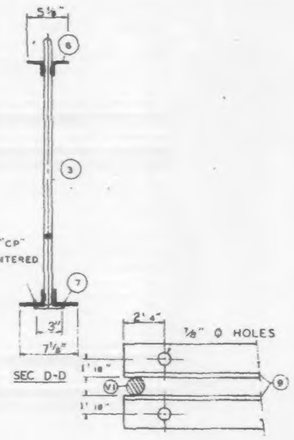
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES (manual).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



E1 END (CORE)



SEC D-D

SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATES					
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA				MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1½"x.31	59'-9"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2⅛"	14 @ 3'-4" = 46'-8"	11	1.09	59-3 3/8"			CP2	A36	½"x3	30'-0"	CB1	A36	½"x3"	10'-0"

	E5 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH
COLUMN END		C32T7A-599	9	A242	2"x1½"x.25	1'-10"	6'-1½"	1	A36	1.09	6'-5"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅜"	1.09	2'-9½"	DS1	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2⅛"	49'-6⅛"	5'-2⅛"

	E1 END	TRUSS DESIGNATION	BEARING ANGLES				WE1	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER								WEB "WC"					WEB "WT"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
CORE END		C32T7A-599	8	A242	2"x1½"x.25	1'-7"	6-9¼ 10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	—	—	—	A 242	1.14	2'-2⅛"	4	A242	1	1.14	3'-0⅞"	-	—	—	—	—

REF DRWGS

7-ABI-4	4-15-68
7-ABI-52	2-15-68
7-ABI-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.3	10-20-67

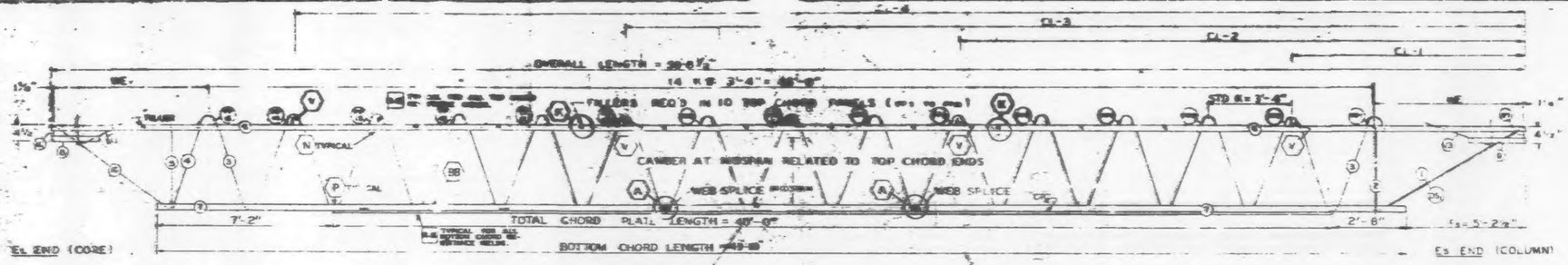
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
W.C.H.I. TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T7A , 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

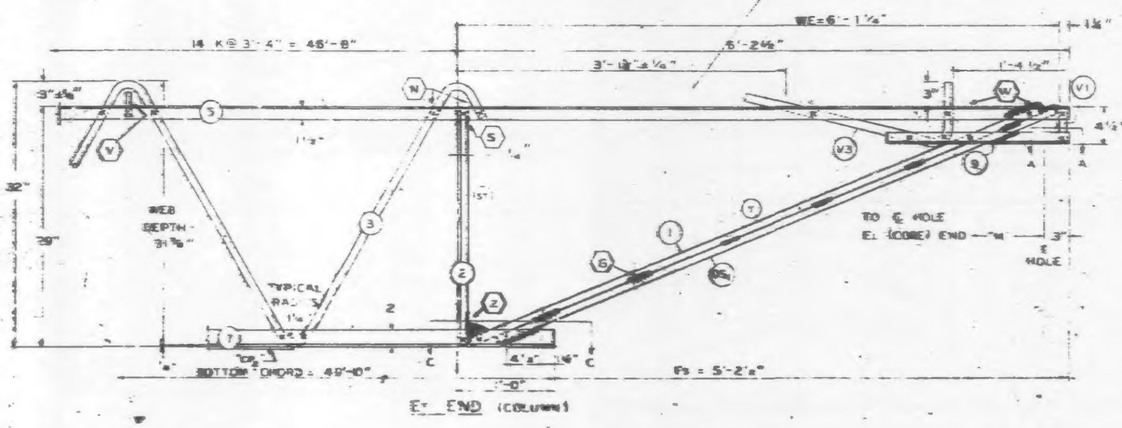
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-ABI-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DRAWN BY DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	CHECKED BY T.M. CHURA DATE APR. 18, 1968
DETAILED BY LACLEDE STEEL CO.	IN CHARGE OF PROD. DEV. FABRICATION CONT NO WTC 221 SHEET NO ST207A

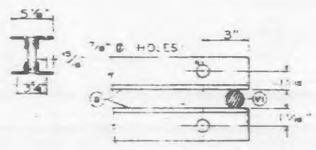
4 pcs 5t

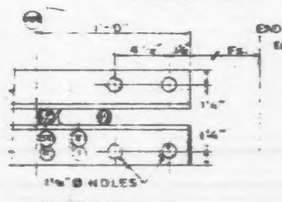


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	SHOP
CAMBER AT MIDSPAN	2 1/2"	3 3/4"
DESIGN DEPTH	29"	
PANEL "K"	3'-4"	
OVERALL LENGTH	59'-6"	
WEB DEPTH	31 7/8"	

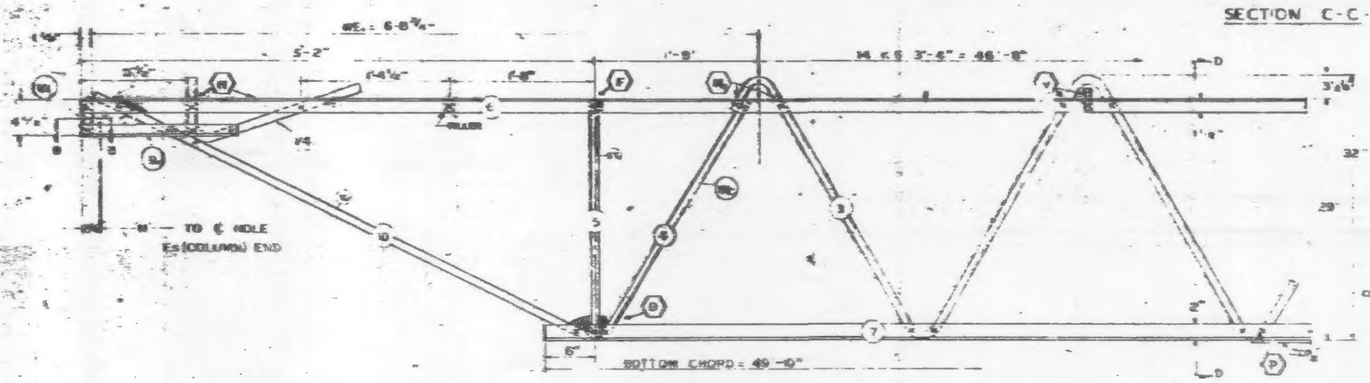


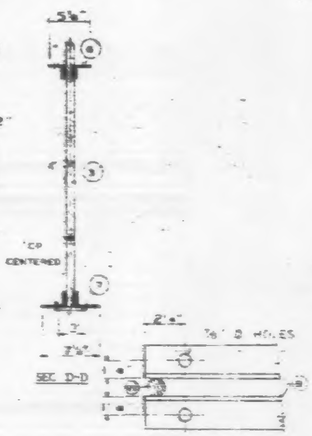




ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (typ.).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD "OL END" IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF ℄	MK	DIA		NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32178-5985	6	A242	2"x1 5/16"x.31	59-6 1/2	7	A36	3"x2"x.33	49'-0"	3	A36	1.00	59'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.00	59-3 1/4"	4	1.00	3"	PL	A36	1/2"	49'-0"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "L" STRUT				VERTICAL "SL" STRUT				END STIFFENER					DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	WIDTH	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32178-5985	9	A242	2"x1"x.25	2'-3"	6'-1"	1	A36	1.09	6'-3"	2	A36	1.00	2'-4"	A36	1.00	4 1/2"	A36	1"	12	A242	3/2	6'-3"

	TRUSS DESIGNATION	BEARING ANGLES				WE.	DIAGONAL "L" STRUT				VERTICAL "SL" STRUT				END "L" STRUT					WEB			WEB		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	WIDTH	SIZE	LENGTH	MK	TYPE	WIDTH	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END	C32178-5985	8	A242	2"x1"x.25	1'-6"	6-6 3/4"	10	A242	1.14	5-6 3/16	5	A242	1.14	2'-4"	A36	1.00	4"	—	—	11	A242	1"	1.00	2'-4"	4	A242	1"	1.00	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/4"	22'-10 1/2"	36'-2 3/4"	49'-6 3/4"	5'-2 1/16"

REF. DRWGS

7-ABB-4	7-38-88
7-AB-57	2-15-88
7-AB1-59	2-22-88
7-AB4-50	8-4-88
7-AB3-2	1-4-88
7-AB4-585	10-26-87

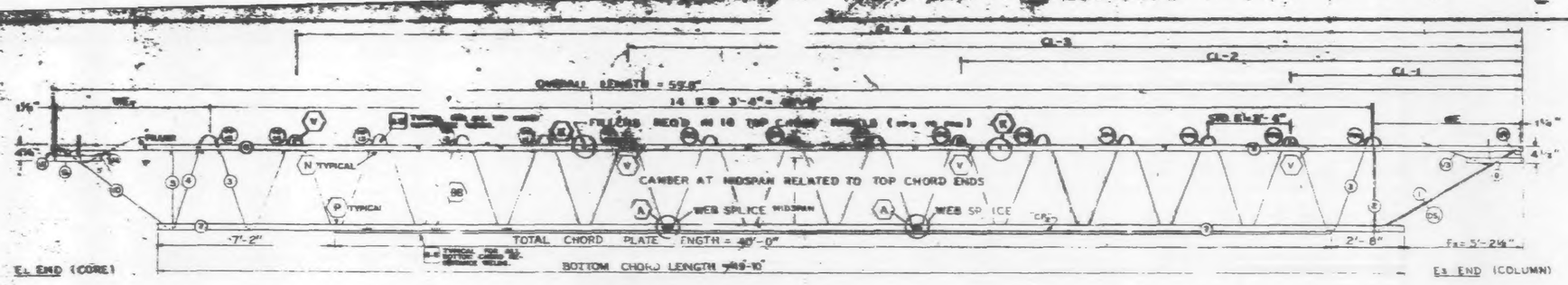
PAINT
LACLEDE ELECTROCOAT
RED NO. 10004

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER TOWER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32178 — 59'-8" OVERALL
WORLD TRADE CENTER TOWER A-B

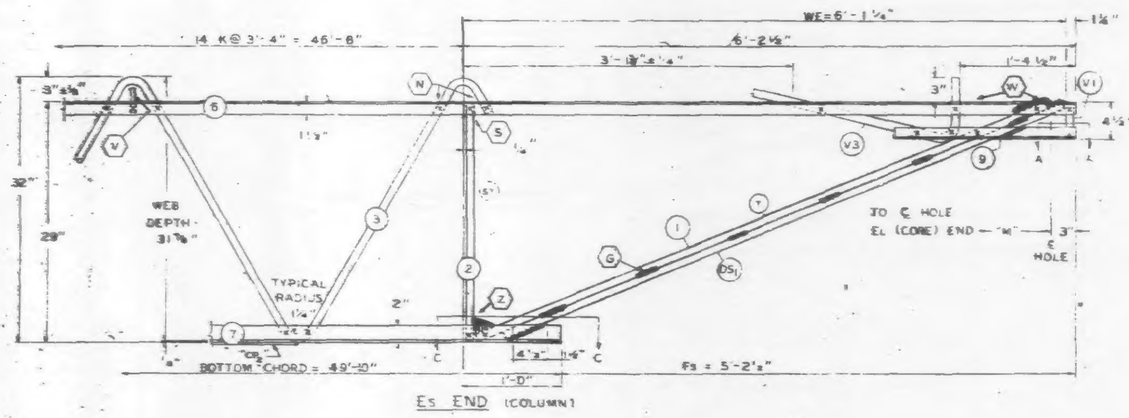
FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT WASHOUGAL, ILLINOIS
DESIGN DRAWING NO. 7-ABB-4 7-AB3-2 PLATE —
APPROVED FOR FABRICATION FOR PORT NY/NJ
DRAWN BY LJ DATE 8/8/88
APPROVED BY CHECKED BY TG CHKD DATE 8/8/88
JOB CATALOG NO. 221 SHEET NO. ST2010

LACLEDE STEEL CO.

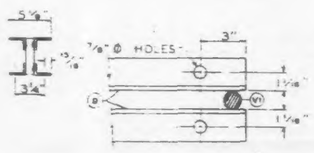


TRUSS ELEVATION

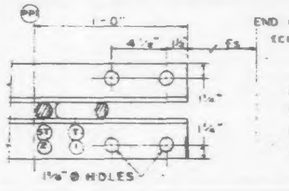
FABRICATION REQUIREMENTS		
	REQUIRED	MEASURED
CAMBER AT MIDSPAN	2½"	
RESIDUAL DEPTH	29"	
PANEL "M"	3'-4"	
OVERALL LENGTH	59'-8"	
WEB DEPTH	7'-7⅛"	



E5 END (COLUMN)



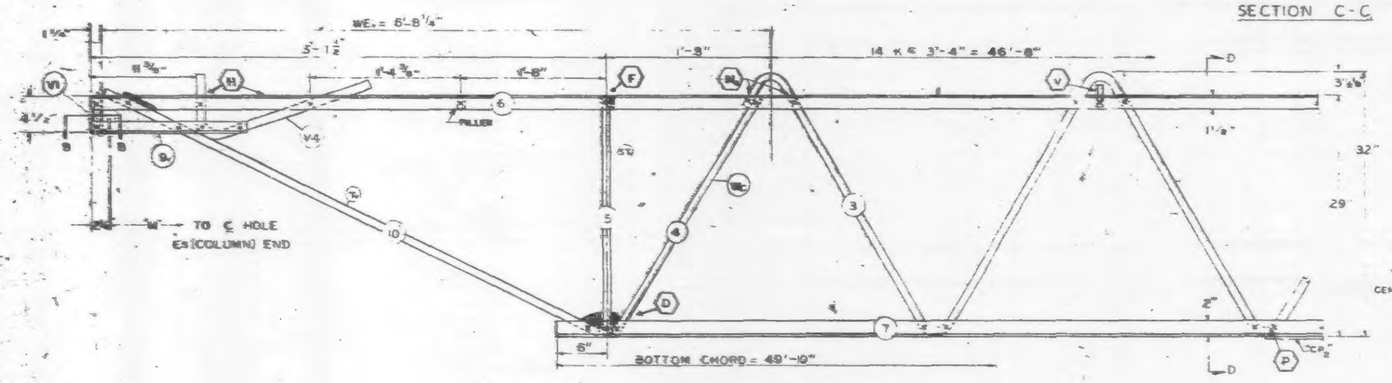
SECTION A-A



SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (×).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES (MIDSPAN).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



E1 END (CORE)

SECTION B-B

NO.	DATE	REVISION	BY

REF DRWGS

7-A81-4	7-22-69
7-A8-52	2-15-68
7-A81-53	7-22-68
7-A84-50	8-1-68
7-A83-2	1-3-68
7-A84-58.5	10-30-67

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF ℄	NO.	DIA		NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7C-598	6	A242	2"x1'-1"x.31	59'-8"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	86'-1⅛"	14 @ 3'-4"=46'-8"	11	1.09	.59-8 3/4"	4	1.09	3"	CP2	A36	¼"x3"	40'-0"

COLUMN END	E5 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T7C-598	9	A242	2"x1'x.25	2'-3"	6'-1'-4"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅞"	A36	1.09	3'-9"	DS	A242	3/2	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2½"	49'-6⅛"	5'-2½"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						WEB "W"				WEB "V"			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	MK	TYPE STEEL	NO.	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T7C-598	8	A242	2"x1"x.25	1'-6"	6'-8⅛"	10	A242	1¼	5'-5"	5	A242	1¼	2'-4⅞"	A242	1¼	4"	—	—	—	A242	1¼	2'-2"	4	A242	1	1¼	2'-8"	—	—	—	—

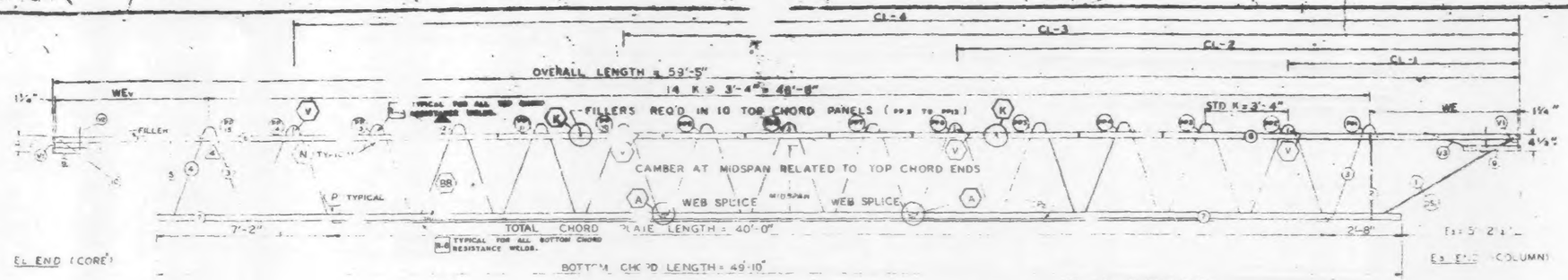
PAINT
LACLEDE ELECTROCOAT
RED NO 1000

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

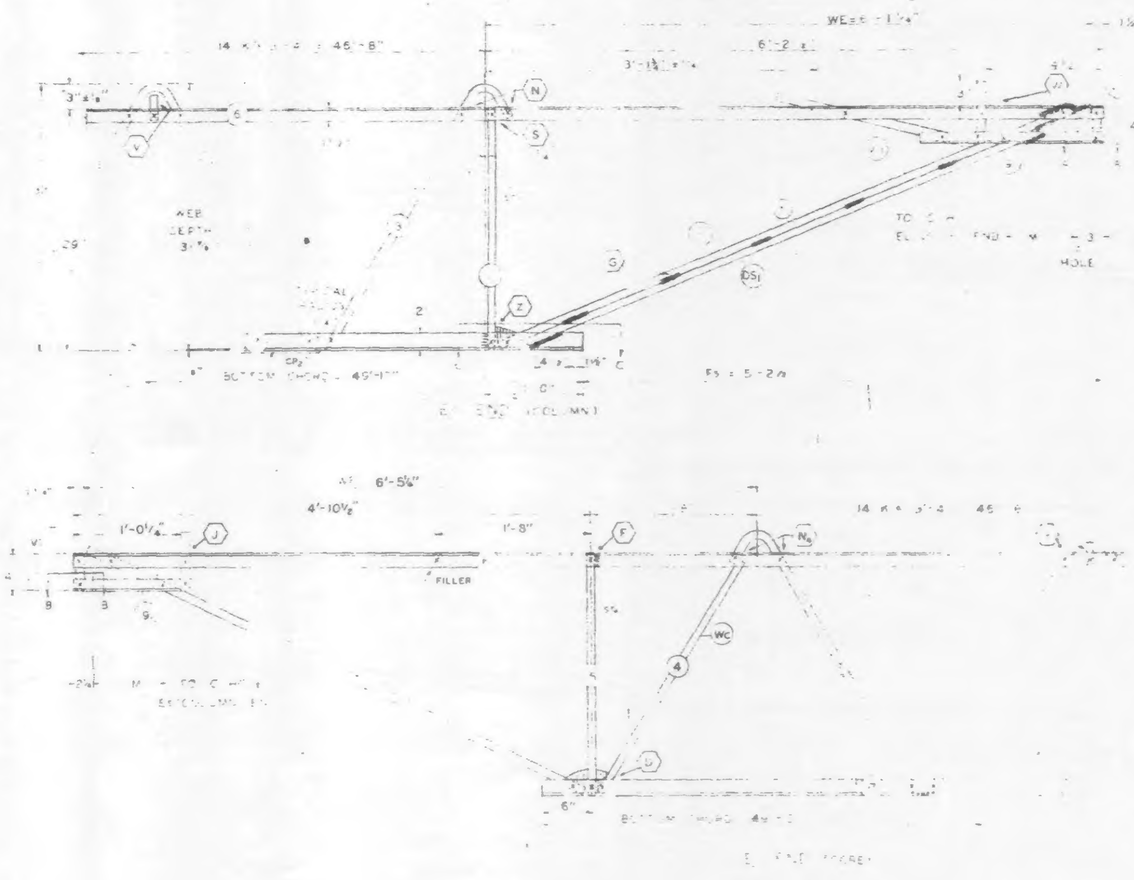
FLOOR TRUSS C32T7C — 59'-8" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED BY MADISON, ILLINOIS
DESIGN DRAWING NO 7-A81-4 7-A83-2 PLATE
APPROVED FOR FABRICATION DATE
BY FOR FABRICATOR
DRAWN BY DATE
CHECKED BY DATE
FOR FABRICATION DATE
LACLEDE STEEL CO.
FABRICATION CONT NO WTC 221
SHEET



FABRICATION REQUIREMENTS		
	DESIGN	ACTUAL
CAMBER AT MIDSPAN	2½"	
DESIGN DEPTH	30"	
PANEL "K"	3'-4"	
OVERALL LENGTH	59'	
WEB DEPTH		



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (TYP.).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS (A, B, ETC.) IN HEXAGONS INDICATE WELD DETAIL, ie., A.
ITEM NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

NO.	DATE	REVISION	BY

REF DRWGS

7-ABI-4	7-22-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	8-1-68
7-ABI-57	1-15-68
7-SB4-NOS	09-20-67

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ½" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ⅝" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB WC MK	TYPE STEEL	PCS	DIA	LENGTH	WEB WT MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T7D595	9	A242	2½ x 2½ x ¼	1'-2⅝"	6'-5⅛"	5	A242	1¼	5'-3"	5	A242	⅝	2'-4⅞"	A242	⅝	4'-4"	A242	1¼	7"	—	—	—	4	A242	2	1¼	2'-10"	—	—	—	—	—

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ½" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ⅝" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB WC MK	TYPE STEEL	PCS	DIA	LENGTH	WEB WT MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7D595	9	A242	2½ x 2½ x ¼	1'-2⅝"	6'-5⅛"	5	A242	1¼	5'-3"	5	A242	⅝	2'-4⅞"	A242	⅝	4'-4"	A242	1¼	7"	—	—	—	4	A242	2	1¼	2'-10"	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	E3
9'-6½"	22'-10"	36'-2½"	49'-6½"	59'-5"

STEEL TRUSS DETAILS

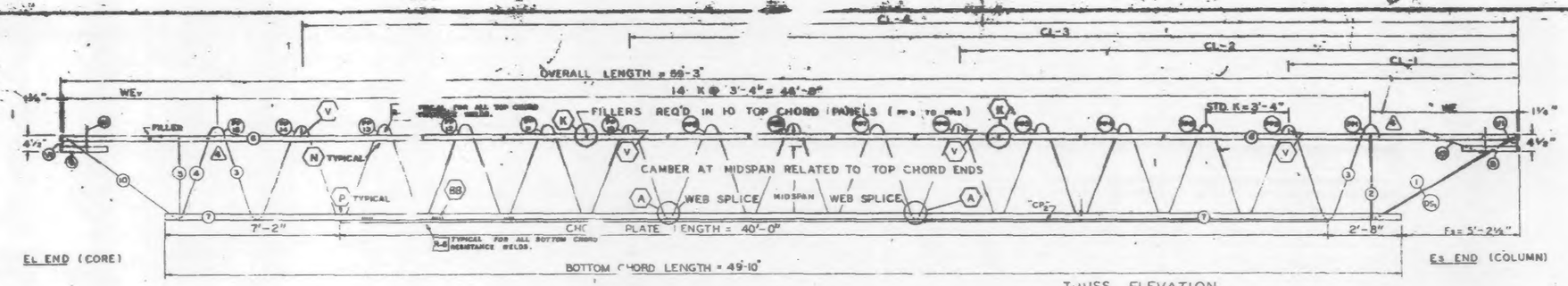
TRUSS TYPE C32T7D — 59'-5" LONG

WORLD TRADE CENTER TOWER NOS

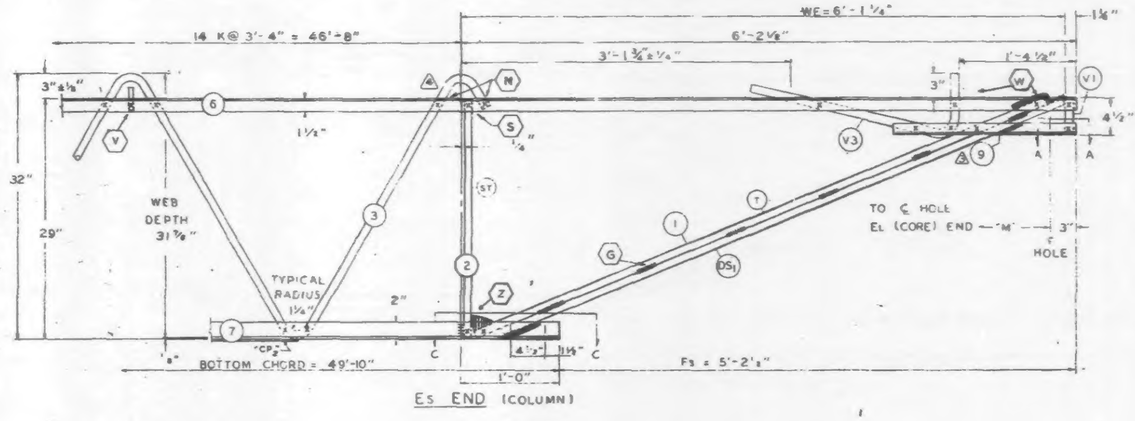
DESIGNED	7-ABI-4	DATE	4-7-69
DRAWN	7-ABI-4	DATE	4-7-69
CHECKED		DATE	
APPROVED		DATE	

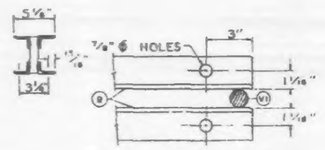
4/15/69

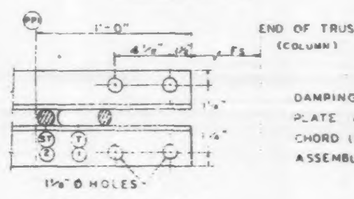
JOB NO. 221 — ST207D



TRUSS ELEVATION





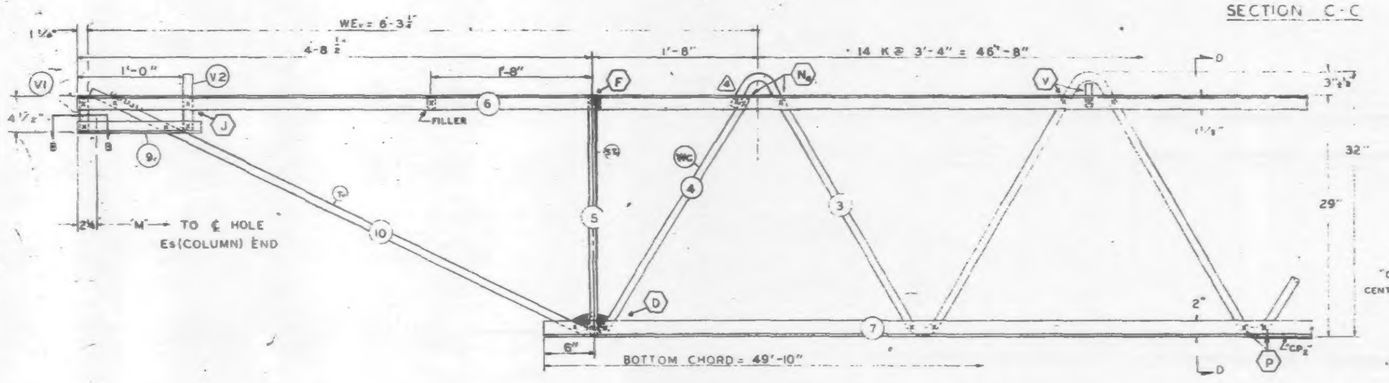


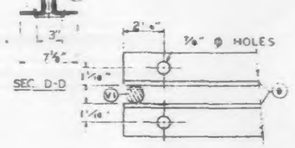
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
END AT BOTTOM CHORD WEB SPLICES (mass).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280. (A)

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31"	± 1/16"





NO.	DATE	REVISION	BY
(A)	12-9-68	AS NOTED	G.D.C.
(A)	7-22-68	MK (9) LENGTH	T.M.C.
(A)	6-22-68	GENERAL	T.M.C.
(1)	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

(A) REF DRWGS

7-ABI-4	7-22-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" ℄ HOLE		CONNECTION FILLERS			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	(A) LENGTH	NO. OF K	NO	DIA	'	NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1½"x.31	59'-3"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	58-9 3/8	4	1.09	3"	CP2	A36	⅛"x3	40'-0"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH (A)		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	(A) LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
COLUMN END Es END	C32T7E-593	9	A242	2"x1⅛"x.25	2'-3"	6'-1 1/16"	1	A36	1.09	6'-3 1/16" (A)	2	A36	1.09	2'-4 3/16"	A36	1.09	4 3/16"	A36	1.09	2'-9 1/2"	DS1	A242	.92	6'-3 1/16" (A)

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/8"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				ST "R" MK. V1			MK. V2			MK. V4			WEB "WC"					WEB "WT"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	(A) LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENG H	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	(A) LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
CORE END EL END	C32T7E-593	9	A242	2"x1½"x.25	1'-2"	6'-3 1/4"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 8	A242	1.14	7 8	—	—	—	4	A242	1	1.14	2'-10"	—	—	—	—	—

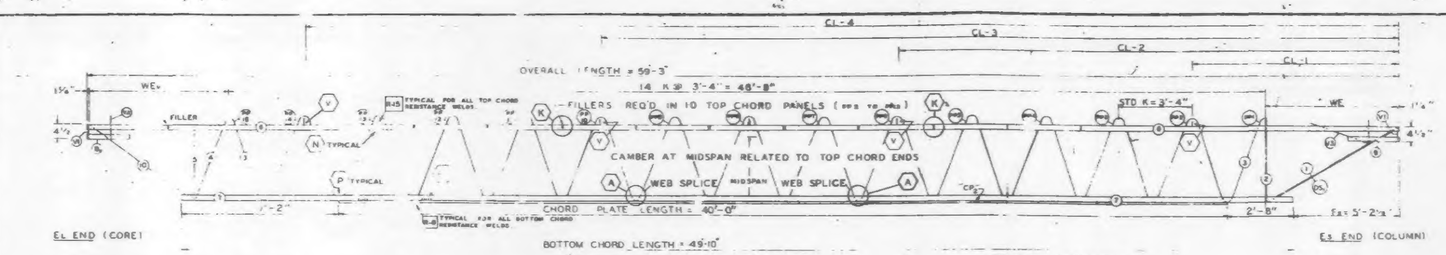
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T7E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-ABI-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONEK	DATE 11/19/68 DRAWN BY DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATION	DATE CHECKED BY T.M. CHURA IN CHARGE OF DATE APR. 18, 1968 PROJ. DEV.
DETAILED BY A.C. WEBER	PUSH LAT. OF CONT. NO WTC 221 SHEET NO ST207E

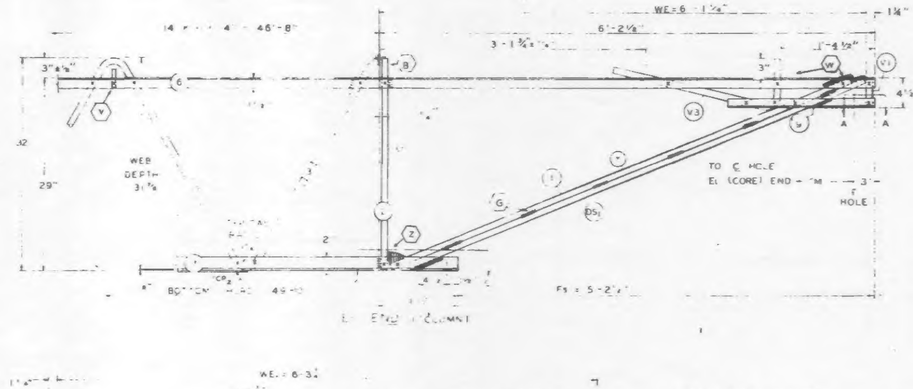
James White

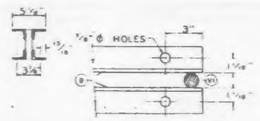
LACLEDE STEEL CO.

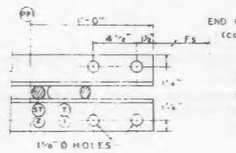


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 5/8"
WEB DEPTH	31 7/8"	± 1/4"



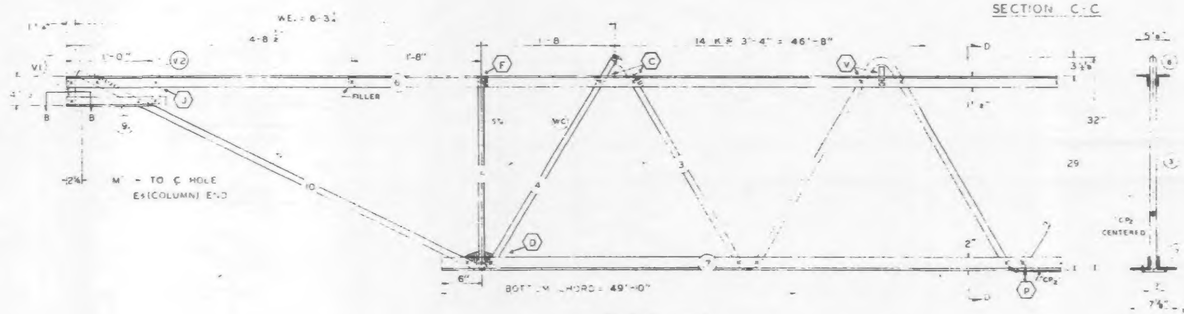


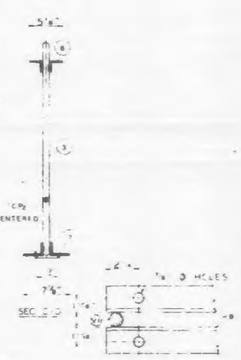


ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (misc).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292,
AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL (W, A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, etc. R-6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD COL END IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.





TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER "C" NO	DIA	"M" ℄ HOLE
C32T7E-593	6	A242	2"x1"x3/8"	59'-3"	7	A36	3 x 2" x 33	49'-10"	3	A36	.109	87'-2 3/4"	14 @ 3'-4" = 46'-8"	11	.109	58 9 1/2"

CONNECTION FILLERS MK	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
4	.109	3"	CP1	A36	9/16	40'-0"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7E-593	9	A242	2"x1"x5/16	2'-3"	6'-1 1/4"	A36	.109	6'-3 1/8"	2	A36	.109	2'-7 5/8"	A36	.109	4 5/8"	A36	.109	2'-9 1/8"	105	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/4"	22'-10 1/4"	36'-2 5/8"	49'-6 1/4"	5'-2 3/8"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7E-593	9	A242	2"x1"x5/16	1'-2"	6-3 1/2"	0	A242	1 1/4	5'-1"	5	A242	1 1/4	2'-4 3/4"	A242	1/4	4 1/8"	A242	1 1/4	7 1/8"	—	—	—	4	A242	1	1 1/4	3'-0 1/2"	—	—	—	—	—

NO	DATE	REVISION	BY
3	7-22-68	MK (9)	TWC
2	6-22-68	GENERAL	TWC
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	TWC

REF DRWGS

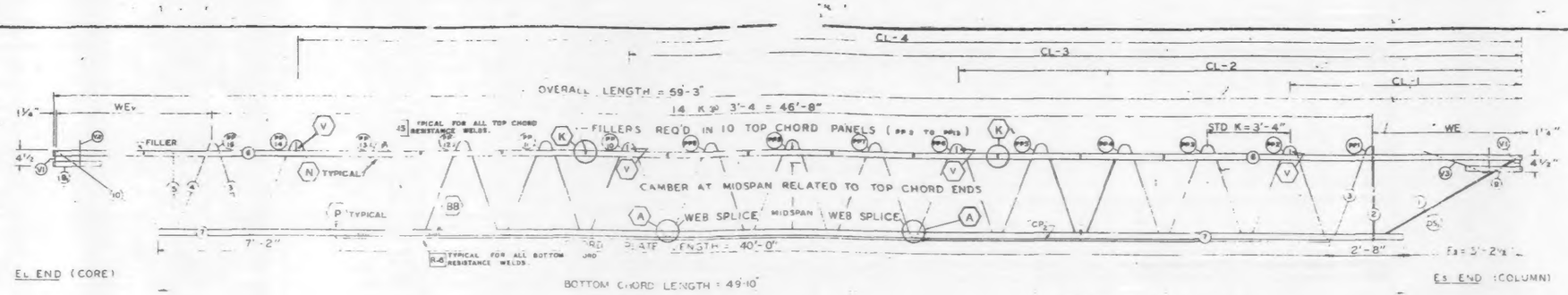
7-AB1-4	4-5-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4..50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-505	10-20-67

PAINT
LAYLEDE STEEL SPECIFICATION
REF NO 10NG

STEEL TRUSS DETAILS

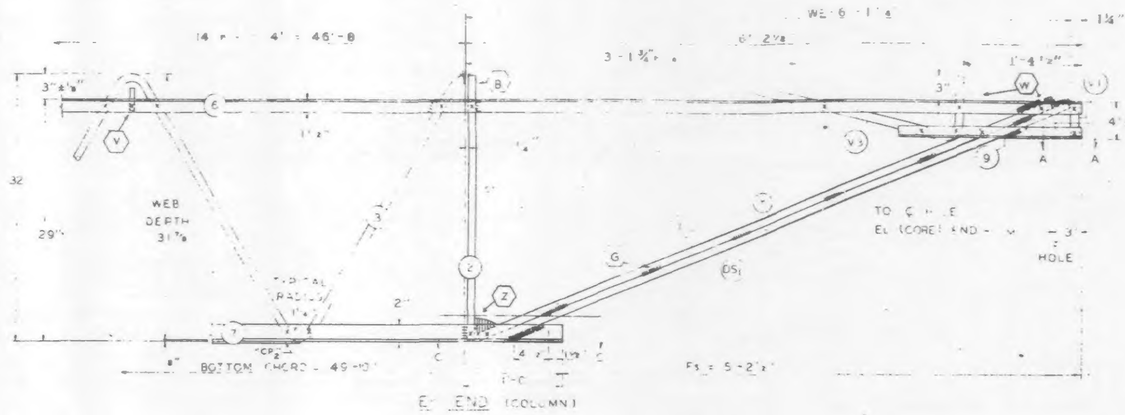
FLOOR TRUSS C32T7E 59'-3" OUT-TO-OUT
WORLD TRADE CENTER TOWER A-B

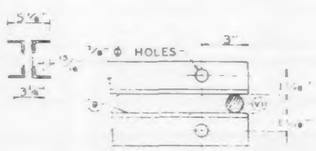
7-AB1-4 7-AB3-2 PLATE
APPR. 10 1968
3/4/68
APR 10 1968
SHEET NO
SECTION 221 ST207E

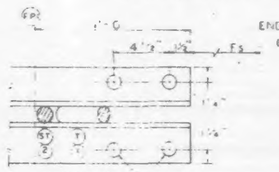


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER "A" MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



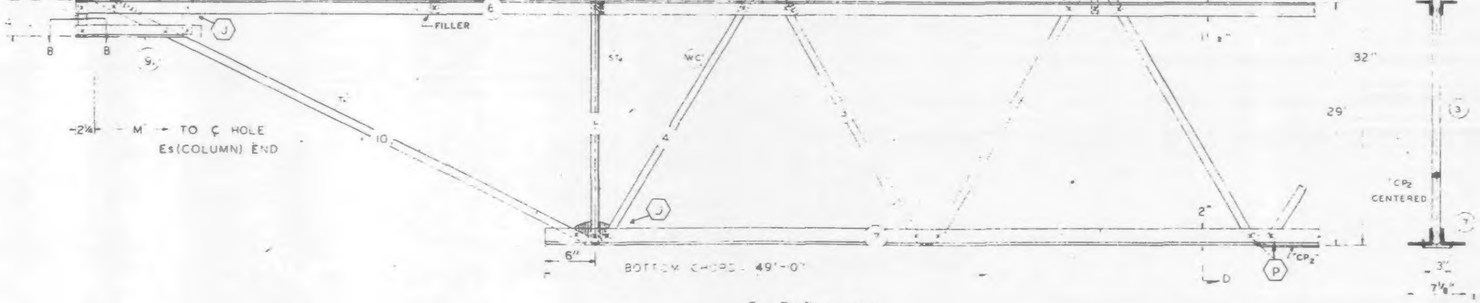


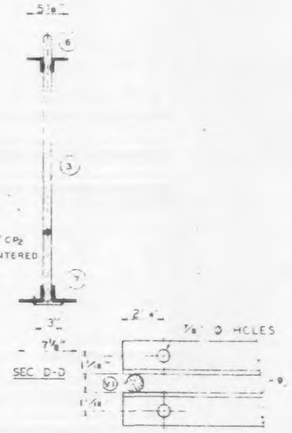


ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (TYP.)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





NO.	DATE	REVISION	BY
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF DRWGS

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-1-68
7-AB4-505	10-20-67

PAINT
EAGLECLEE ELIZABETH
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1"x⅜"x 33	59'-3"	7	A36	3"x 2"x .33	49'-10"	3	A36	1.09	87'-2⅛"	14 @ 3'-4" = 46'-8"	11	1.09	58-9 3/4"	4	1.09	3"	CP2	A36	¼x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA	MK. V3 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1"x⅜"x 25	2'-0"	6'-1"±	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅜"	A36	1.09	2'-9"±	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER										WEB "WC"					WEB "WT"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	9	A242	2"x1"x⅜"x 25	1'-2"	6'-3⅛"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4¾"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	3'-0½"±	—	—	—	—	—

STEEL TRUSS DETAILS

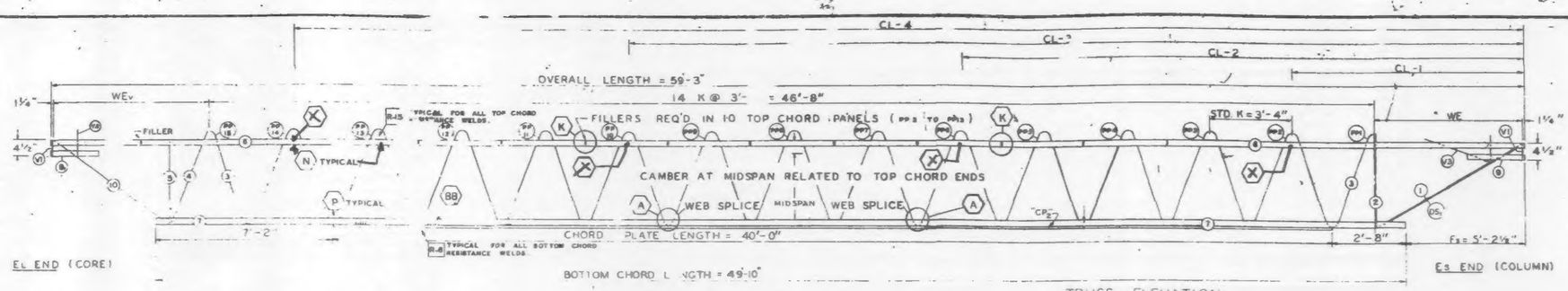
FLOOR TRUSS C32T7E 59'-3" OVERALL

WORLD TRADE CENTER TOWER A-B

DRAWN BY	JW	CHECKED BY	T.M.CHURA
APPROVED FOR SHOP DRAWINGS BY	JW	DATE	APR. 18, 1968
DETAILED BY	E.C. WEBER	DATE	2-21

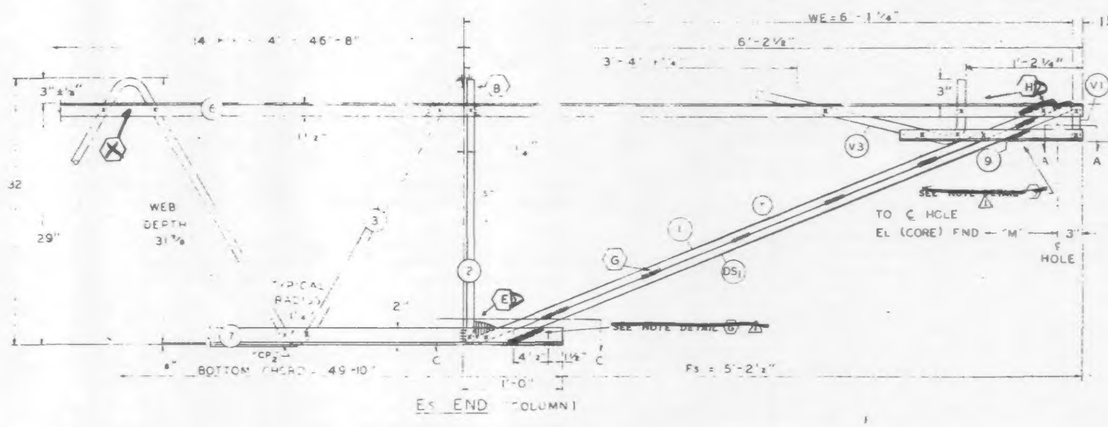
DRAWING NO. 7-AB1-4 7-AB3-2

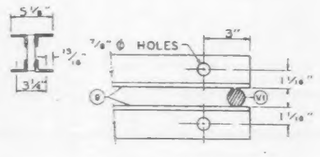
SHEET NO. ST207E



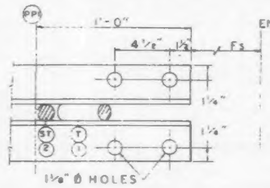
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





SECTION A-A

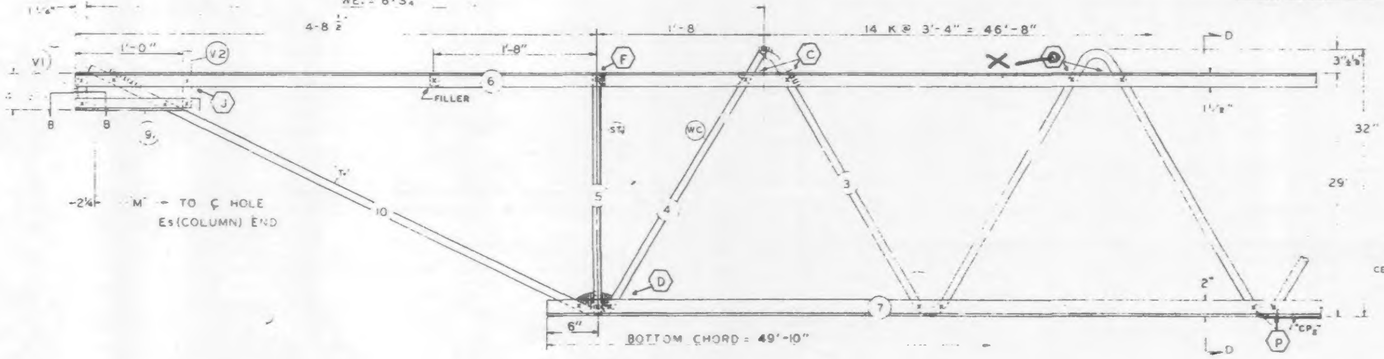


SECTION C-C

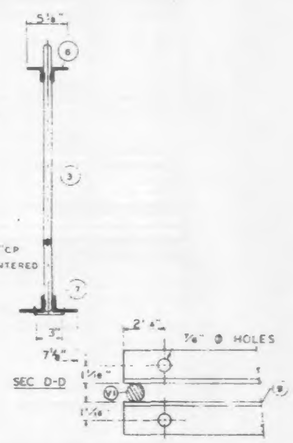
ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (manual).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SEC D-D

SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLE	TRUSS DATA		CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF #	NO	DIA			MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1 1/2"x 3/8	59-3"	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	87'-2 1/2"	14 @ 3'-4" = 46'-8"	11	1.09	58-9 3/4"		CP2	A36	7/8"x3	40'-0"

COLUMN END

TRUSS DESIGNATION	Es END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7E-593		9	A242	2"x1 1/2"x 5/16	1'-10"	6'-1 1/4"		A36	1.09	6'-3' 8"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 3/8"	A36	1.09	2'-9' 8"	DS1	A242	75	6'-3' 8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-0 1/8"	5'-2 1/8"

CORE END

TRUSS DESIGNATION	EL END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7E-593		9	A242	2"x1 1/2"x 5/16	1'-2"	6 3/4"	0	A242	1 1/4	5'-1"	5	A242	1 1/4	2'-4 3/4"	A242	1 1/4	4	A242	2	1 1/4	7	—	—	—	—	4	A242	1	1 1/4	3'-0 1/8"	—	—	—	—	—

NO.	DATE	REVISION	BY
5	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

6/13/68 WAB

REF DRWGS

7-ABI-4	4-5-68
7-ABI-52	2-15-68
7-ABI-53	4-1-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	1-3-68
7-AB4-505	10-20-67

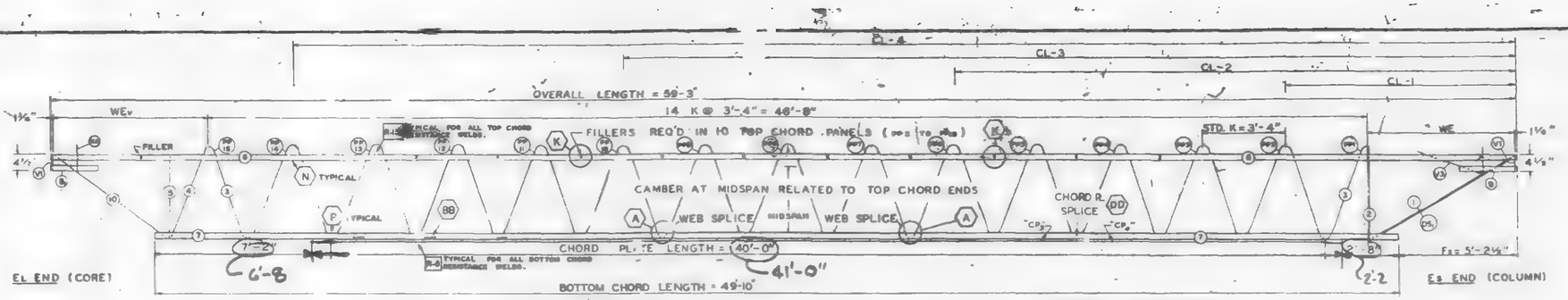
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER TOWER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

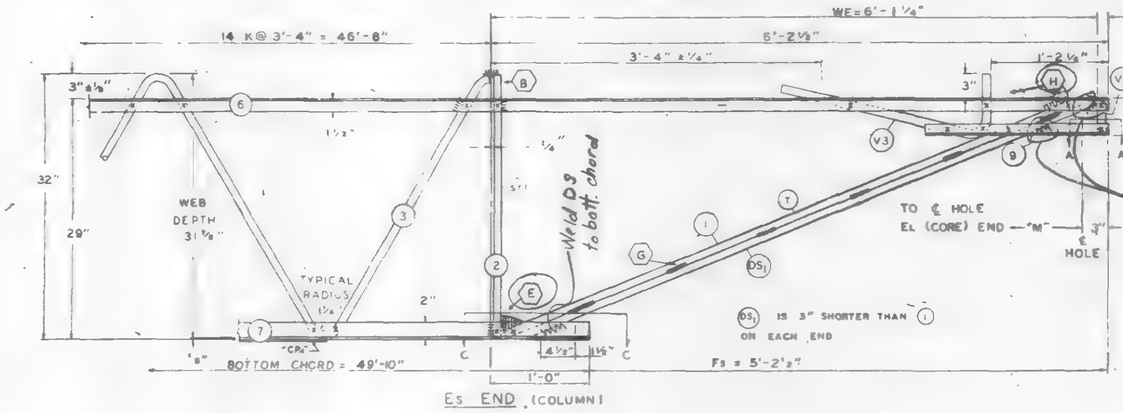
FABRICATION BY LACLEDE STEEL COMPANY

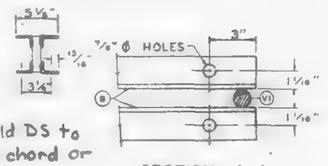
FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY	DATE
APPROVED FOR ERECTION BY	DATE
DETAILED BY	A.C. WEBER
DRAWING NO.	7-ABI-4 7-AB3-2
DRAWN BY	WH DATE APR. 10, 1968
CHECKED BY	EM CHURA IN CHARGE
DATE	APR. 15, 1968
FABRICATION CONT. NO.	WTC 221
SHEET NO.	ST207E



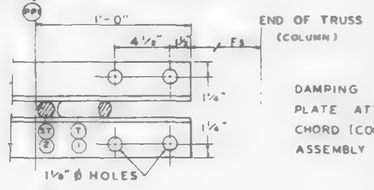
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 1/4"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	<Q 3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/8"





SECTION A-A

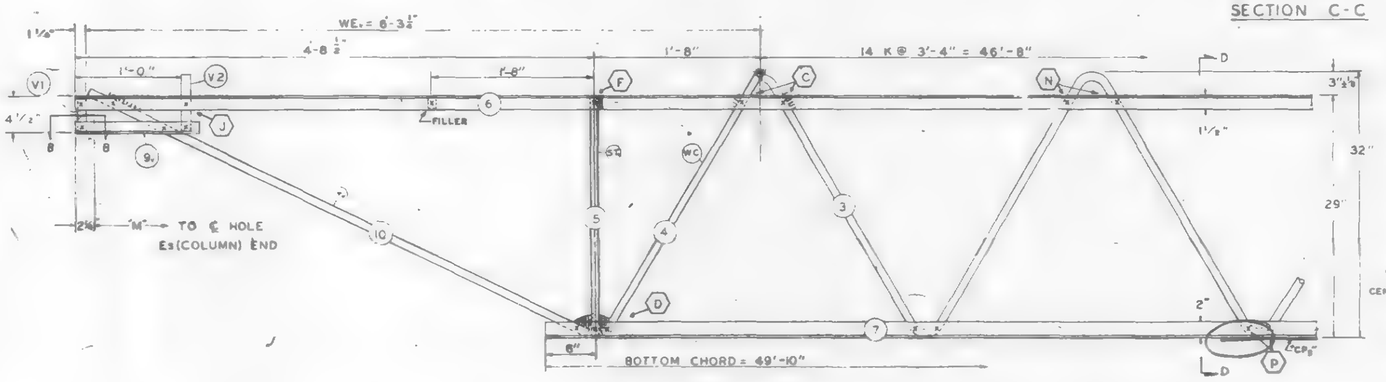


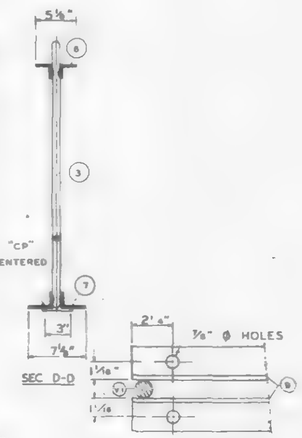
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (ARC).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.





SECTION B-B

REF. DRWGS		
7-AB1-4	4-15-68	
7-AB1-52	2-15-68	
7-AB1-53	4-1-68	
7-AB4-50 & 50.2	10-20-67	
7-AB3-2	1-3-68	
7-AB4-50.5	10-20-67	

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATE			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF ℄	NO	DIA.			MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1 1/2"x 31	59'-3"	7	A36	3"x 2"x .33	49'-10"	3	A36	109	87'-2 1/4"	14 @ 3'-4" = 46'-8"	11	109	58-9 3/4"		CP	A36	1/4"x3"	30'-0"	CP2	A36	1/4"x3"	10'-0" 11'-0"

	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER								DOUBLE STRUT			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1			MK. V3			MK.	TYPE STEEL	DIA	LENGTH
																TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH				
COLUMN END		C32T7E-593	9	A242	2"x1 1/2"x 25	1'-10"	6'-1 1/4"		A36	109	6'-5"	2	A36	109	2'-7 5/8"	A36	109	4 5/8"		109	2'-9 1/8"	DS1	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB					
LOCATION OF TRANS TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/4"	

	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER										WEB "WC"				WEB "WT"			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1			MK. V2			MK. V4			MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH
																TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH										
CORE END		C32T7E-593	9	A242	2"x1 1/2"x 25	1'-2"	6'-3 3/4"	10	A242	1 1/4	5'-1	5	A242	1.14	2'-4 3/8"	A242	14	4	A242	1 1/4	7"	—	—	—	4	A242	1	1 1/4	3'-0 1/2"	-	—	—	—	—

REF DRWGS

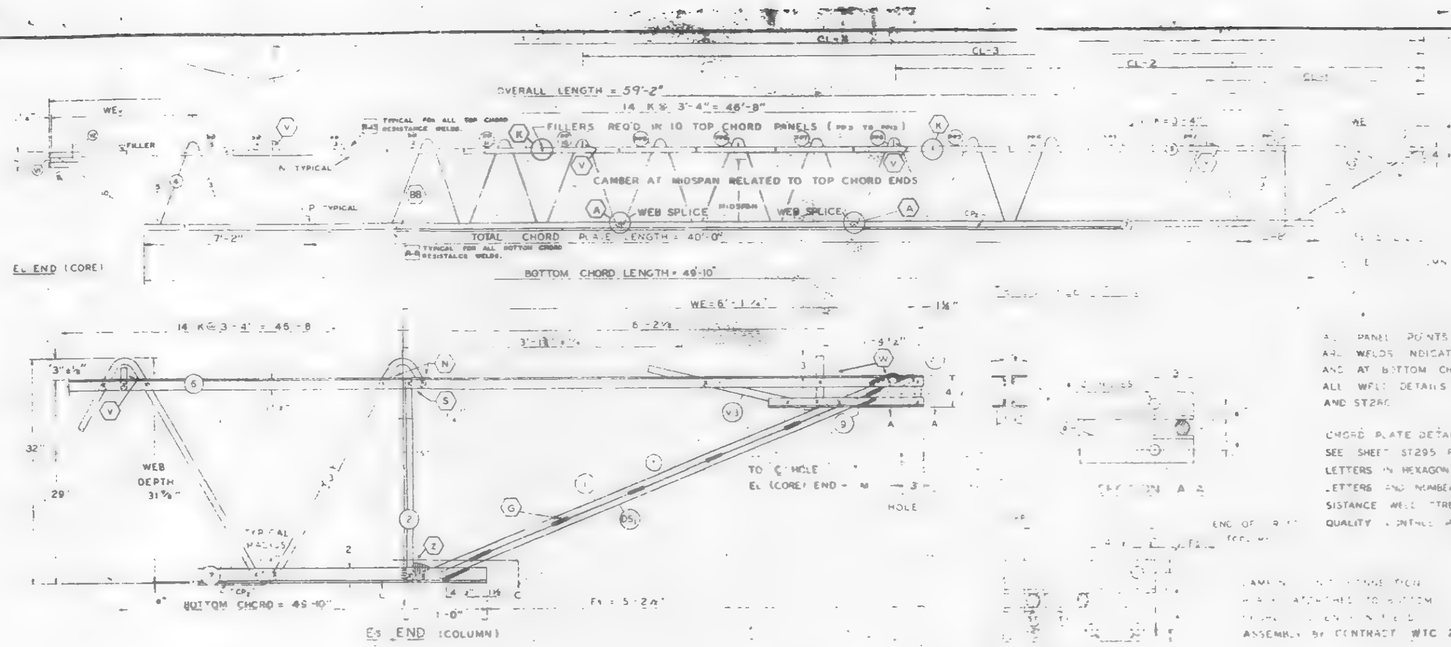
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
WORLD TRADE CENTER NYC
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7E " 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DRAWING NO 7-AB1-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR DOMCO	DRAWN BY DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE APR 18, 1968 CHECKED BY T.M. CHURA IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO. MEMBER	FABRICATION CONT NO WTC 221 SHEET NO ST207E



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2½"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL NO.	3'-4"	± 1/4"
OVERALL LENGTH	59'-2"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (R.W.).
ALL WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (MANUAL).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST295.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, W-1/R-6

END OF PLATE FOR W1

SECTION A-A

ASSEMBLY BY CONTRACT WTC 223.00.

SECTION

NO.	DATE	REVISION	BY

REF DWGS

T-AB1-4	T-BB1-1
T-AB1-33	2-20-68
T-AB4-30	17-22-68
T-AB3-2	8-1-69
T-AB4-301	10-20-67

LACLEDE ELECTRIC COMPANY

RED NO. 1003

STEEL TRUSS DETAILS

C32TF 59'-2" OVERALL

MIDDLE PANEL DENVER VER A-B

MEAN

DRAWN	T-AB1-4	T-AB3-2	T-BB1-1	
CHECKED	Lvk MAR 6 1969			
APPROVED	MAR 6 1969			

221 ST207F

END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL T. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
℄ END	C32TF 592	9	A242	2½ x 2½ x 25	1	6'-2⅞"	10	A242	1¼	5'-0⅛"	5	A242	1¼	2'-4⅛"	A242	1¼	4'-8"	A242	1¼	7'-8"	—	—	—	4	A242	1	1¼	2'-10"

END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL T. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB W1 MK	TYPE STEEL	PCS	DIA	LENGTH	WEB W2 MK	TYPE STEEL	PCS	DIA	LENGTH
E. END	C32TF 592	9	A242	2½ x 2½ x 25	1	6'-2⅞"	10	A242	1¼	5'-0⅛"	5	A242	1¼	2'-4⅛"	A242	1¼	4'-8"	A242	1¼	7'-8"	—	—	—	4	A242	1	1¼	2'-10"	—	—	—	—	—

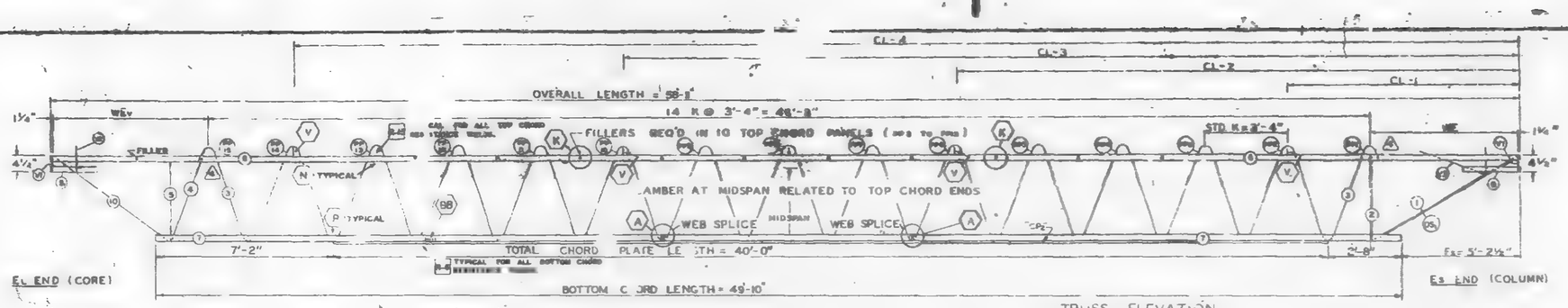
END	TRUSS DESIGNATION	TWO CHORD ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB W MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	LENGTH
℄ END	C32TF 592	6	A242	2½ x 2½ x ¼	59'-2"	7	A36	2½ x 2½ x ¼	49'-0"	3	A36	109	88'-1⅛"	14 @ 3'-4" = 46'-8"	11	109	58 8"	4	1.09"	3"	CP1	A36	4'-0"

END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL T. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
℄ END	C32TF 592	9	A242	2½ x 2½ x 25	1	6'-2⅞"	9	A242	1¼	6'-3⅛"	2	A36	109	2'-4⅛"	A36	109	4'-8"	A36	109	2'-9"	DS1	A242	92	5'-3"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

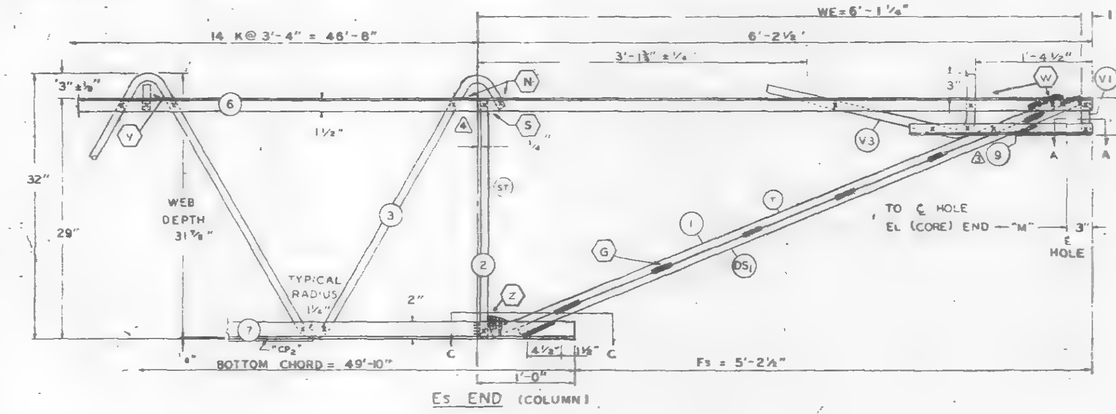
CL-1	CL-2	CL-3	CL-4	FS
9'-6"	22'-10"	36'-2½"	49'-6"	55'-2"

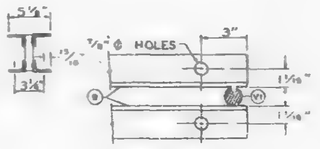
James White



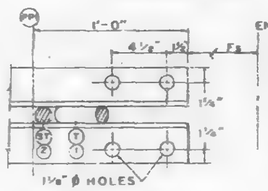
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2½"	± 3/8"
DESIGN DEPTH	88"	± 1/2"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 3/8"
WEB - DEPTH	31 7/8"	± 1/4"





SECTION A-A

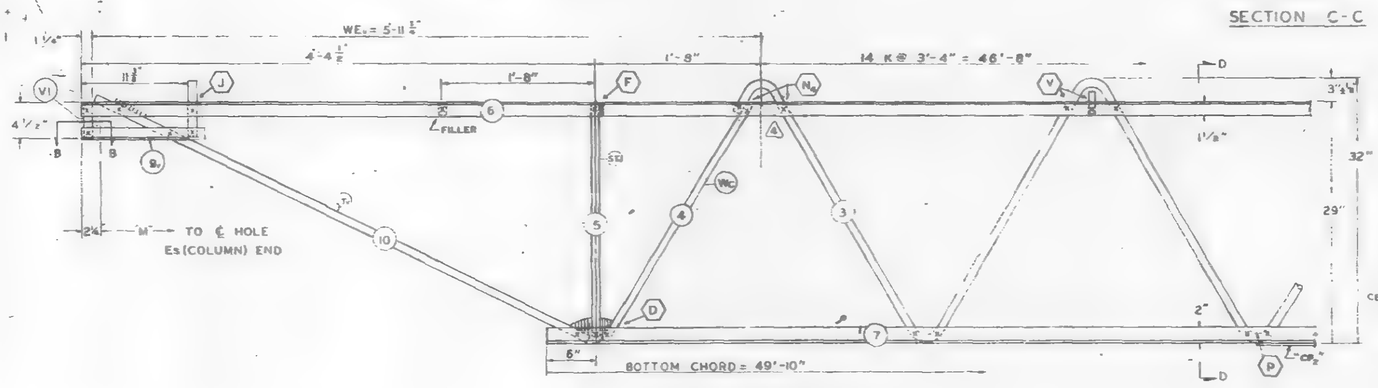


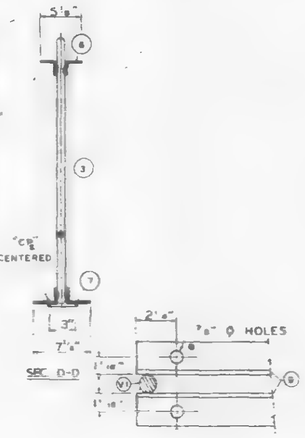
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▨).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST280. (A)

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.





SECTION B-B

NO.	DATE	REVISION	BY
4	12-9-68	AS NOTED	G.D.C.
3	7-22-68	MK (9) LENGTH	T.M.C.
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

(4) REF DRWGS		
7-AB1-4	7-22-68	
7-AB-52	2-15-68	
7-AB1-53	7-22-68	
7-AB4-50	8-1-68	
7-AB3-2	1-3-69	
7-AB4-505	10-20-67	

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	NO OF #	NO	DIA	NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58II	6	A242	2"x1½"x.31	58'-11"	7	A36	3"x 2" x .33	49'-10"	3	A36	1.09	88'-1⅛"	14 @ 3'-4" = 46'-8"	11	1.09	56-5⅜"	4	1.09"	3"	CP2	A36	1¼x3	40'-0"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH (4)		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	MK VI TYPE STEEL	MK VI DIA	MK VI LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T7G-58II	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅜"	A36	1.09	2'-9·⅛"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

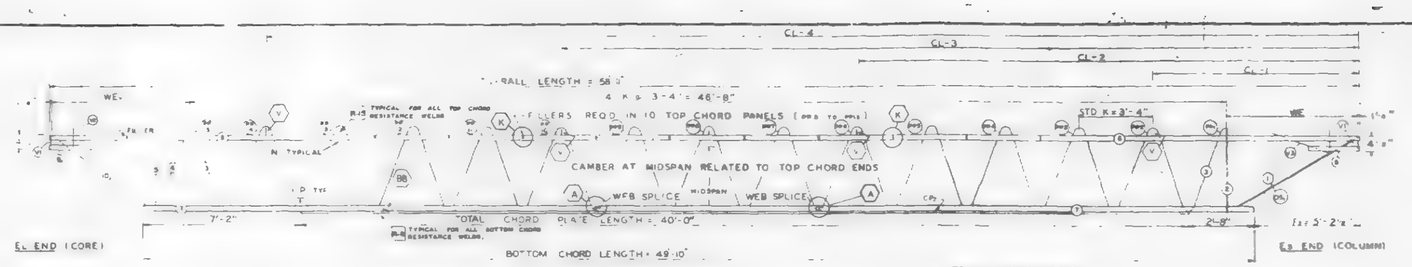
CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				STIFFENER							WEB "WC"					WEB "WT"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	MK VI TYPE STEEL	MK VI DIA	MK VI LENGTH	MK V2 TYP. STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	(4) LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T7G-58II	9A	A242	2"x1½"x.25	1'-1½"	5-11⅝"	10	A242	1¼	4-9½"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1¼	2'-10"	-	—	—	—	—

FABRICATION BY	LACLEDE STEEL COMPANY		
FABRICATED AT	MADISON, ILLINOIS	DESIGN DRAWING NO	7-AB1-4, 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 12/14/68	DRAWN BY	DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA	DATE APR. 18, 1968 IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.		FABRICATION CONT. NO	WTC 221 SHEET NO ST2076
DETAILED BY	A.C. WEBER		

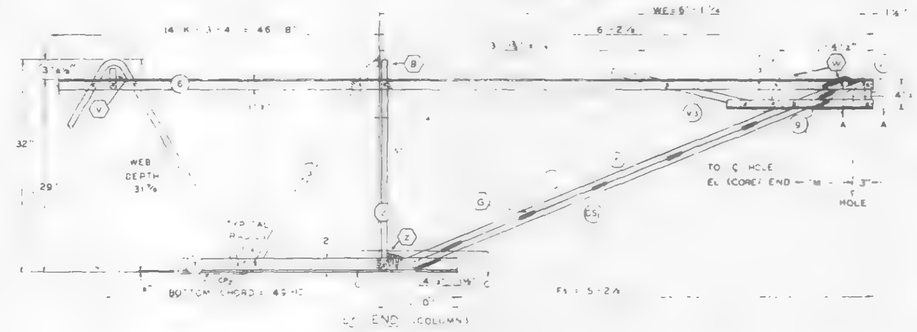
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

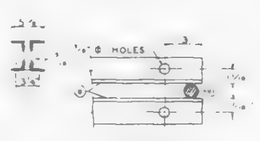
FLOOR TRUSS C32T7G — 58'-11" OVERALL

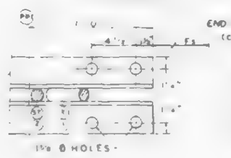
WORLD TRADE CENTER TOWER A-B



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-0"	± 3/8"
WEB DEPTH	31'-8"	± 1/4"



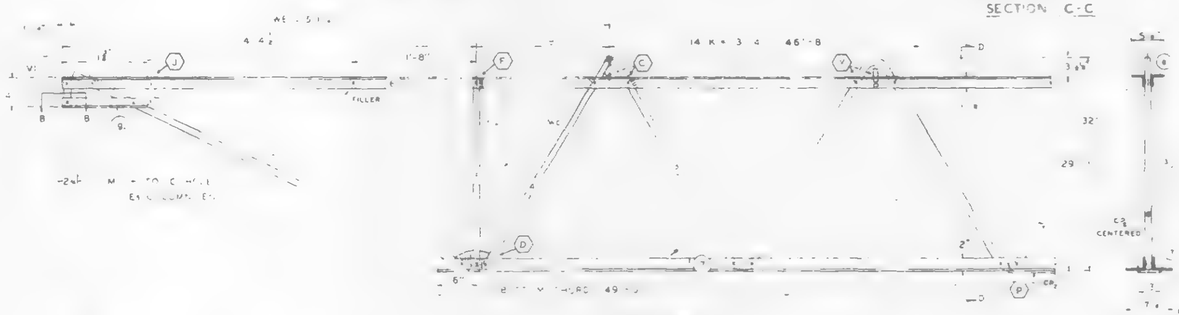




ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (WMMS).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292
AND ST280

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.



NO	DATE	REVISION	BY
3	7-22-68	MK (3)	TMC
2	6-22-68	GENERAL	TMC
1	5-27-68	CHORD PLATE, WELD, 7 DIAGONAL	TMC

REF DRWGS

AB1 4 4-3-68
AB1 52 2-15-68
AB1 53 4-1-68
AB4 50 & 50.2 10-20-67
AB1 2 6-
AB4 10* 7-23-67

FLOOR TRUSS C32T7G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	WE MK	DIAGONAL "Y" STRUT TYPE STEEL	DIA	LENGTH	WE MK	VERTICAL "V" STRUT TYPE STEEL	DIA	LENGTH	WEB MEMBER "W" NO OF W	NO	DIA	FILLER & C HOLE NO	DIA	LENGTH	CONNECTOR FILLERS MK	TYPE STEEL	SIZE	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7G 58'	6	A242	2"x3"x5/16	58'-11"	7	A36	3"x2"x33	49'-0"	3	A36	1"x8"	2'-1"	4 @ 3'-4" = 46'-8"	1	109	58	5	4	109	3	9	A36	4"x5/16	4'-0"			

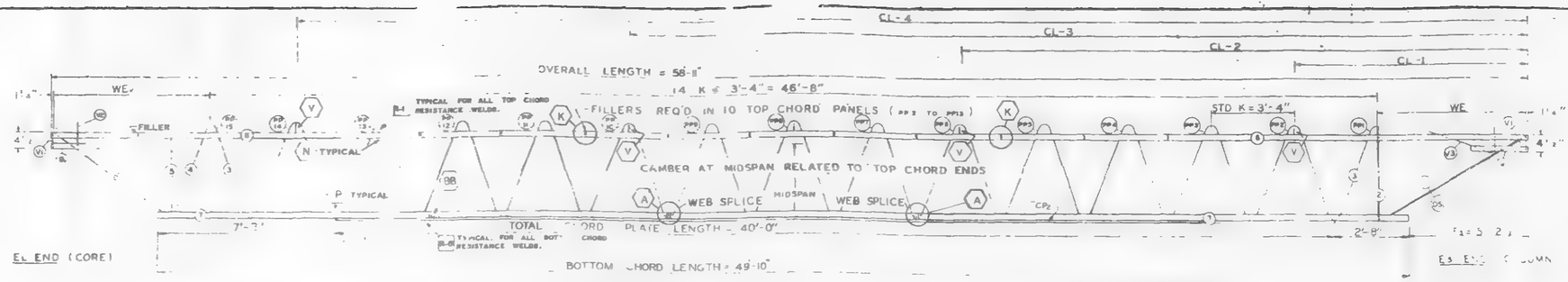
TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "Y" STRUT TYPE STEEL	DIA	LENGTH	VERTICAL "V" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7G 58'	9	A242	2"x3"x5/16	2'-3"	6	A36	1"x3"	6'-3 1/2"	2	A36	1"x8"	2'-7 5/8"	A36	109	4'-8"	A36	109	2'-9 5/8"	105	A242	92	6'-3 1/2"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL 4	Fs
9'-6 1/2"	22'-10 1/2"	35'-2 1/2"	48'-6 1/2"	5'-2 1/2"

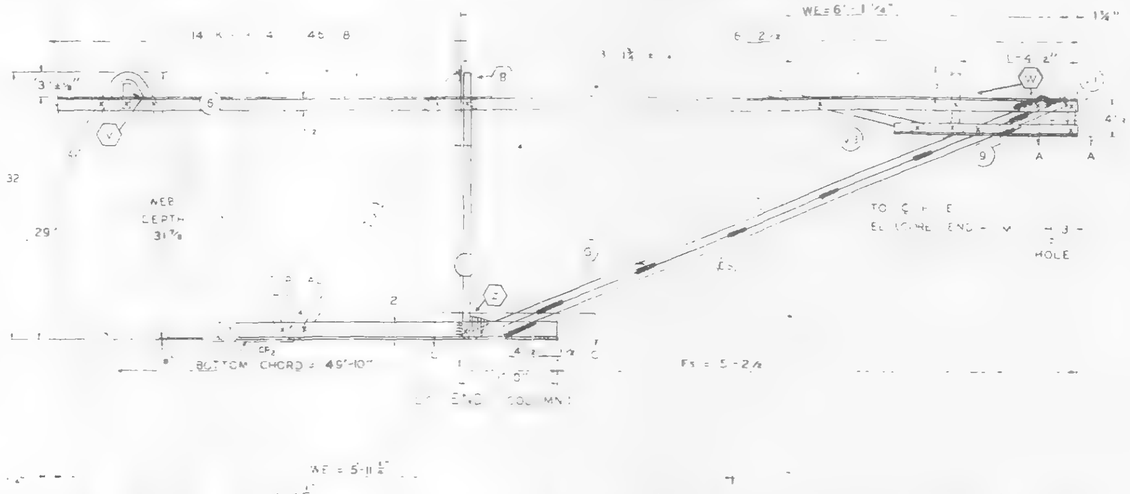
TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "Y" STRUT TYPE STEEL	DIA	LENGTH	VERTICAL "V" STRUT TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LE-TH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7G 58'	9	A242	2"x3"x5/16	2	5	D	A242	1 1/4	4 9 1/2	5	A242	1"x8"	2'-4"	A242	4	A242	1 1/4	7	—	—	4	A242	1	1 1/4	3'-0"	—	—	—	—	—

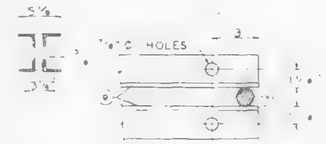
ST207G



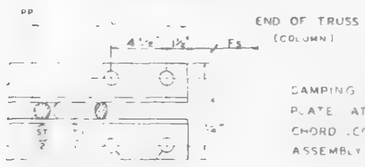
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 5/16"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58-11"	± 3/8"
WEB DEPTH	31 7/8"	± 1/8"





SECTION A A

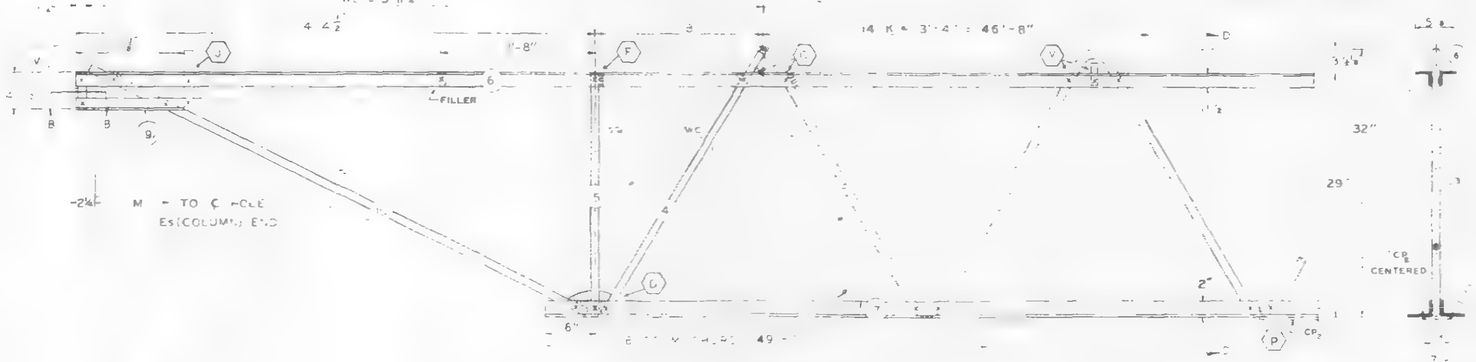


SECTION C C

ALL PANEL POINTS RESISTANCE WELDED ( ).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( ).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST280

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST235 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A .
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



SECTION B B

NO.	DATE	REVISION	BY
2	6-22-68	GENERAL	E.W.S
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C

REF. DRWGS.

T-AB1-4	6-15-68
T-AB1-52	2-15-68
T-AB1-53	4-11-68
T-AB4-50 & 50.2	10-20-67
AB1-2	6-
AB4-50.5	0-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES			WAN WEB "W"				FILLER ℄ HOLE "M"		CONNECTION FILLERS			CHORD PLATE		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58 11	6	A242	2"x1 1/2"x 3/16"	58 11	7	A36	3"x2"x 33	49'-10"	3	A36	Gv	87' 2 1/2"	14 @ 3'-4" = 46'-8"	11	109	58-5 3/4"	4	109	3"	CP	A36	4x3	40'-0"

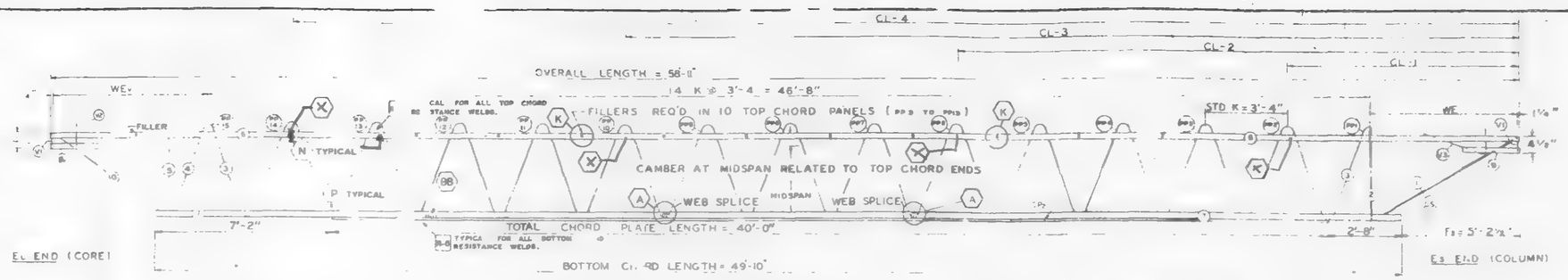
	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER								DOUBLE STRUT			
															MK VI				MK V3							
	ES END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T7G-58 11	9	A242	2"x1 1/2"x 5/16"	2' 0"	6'-1 1/4"		A36	109	6'-3 1/16"	2	A36	109	2'-7 3/8"	A36	109	4 3/8"	A36	109	2'-9 1/8"	DS	A242	92	6'-3 1/16"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/8"	36'-2 1/2"	49'-6 1/8"	5'-2 1/2"

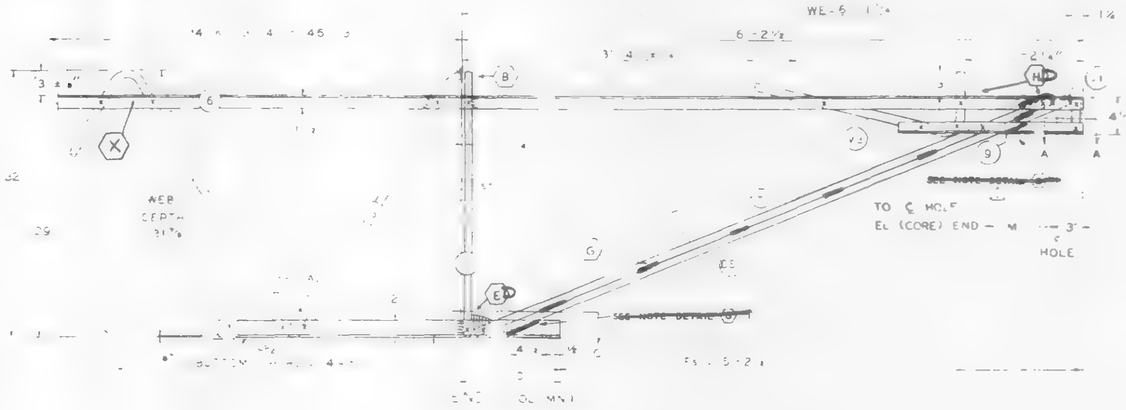
	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER										WEB "WC"				WEB "WT"			
															MK VI			MK V2			MK V4											
	EL END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
CORE END	C32T7G-58 11	9	A242	2"x 3"x 25	11 1/2	5-11 1/16	0	A242	114	4 9 1/2	5	A242	4	2'-4 3/4"	A242	4	4 1/8	A242	114	7 3/8"	—	—	—	4	A242	1	114	3'-0 1/2"	—	—	—	—	—

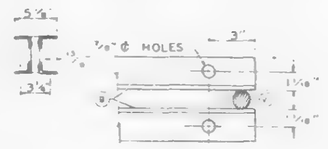
	T-AB1-4		6-15-68
	T-AB1-2		
	6/25/68		Lw
			APR 18,1968
			APR 8, 1968
			ST207G



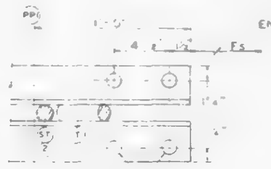
SIDE ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58-1"	± 3/8"
WEB DEPTH	8"	± 1/4"





SECTION A-A

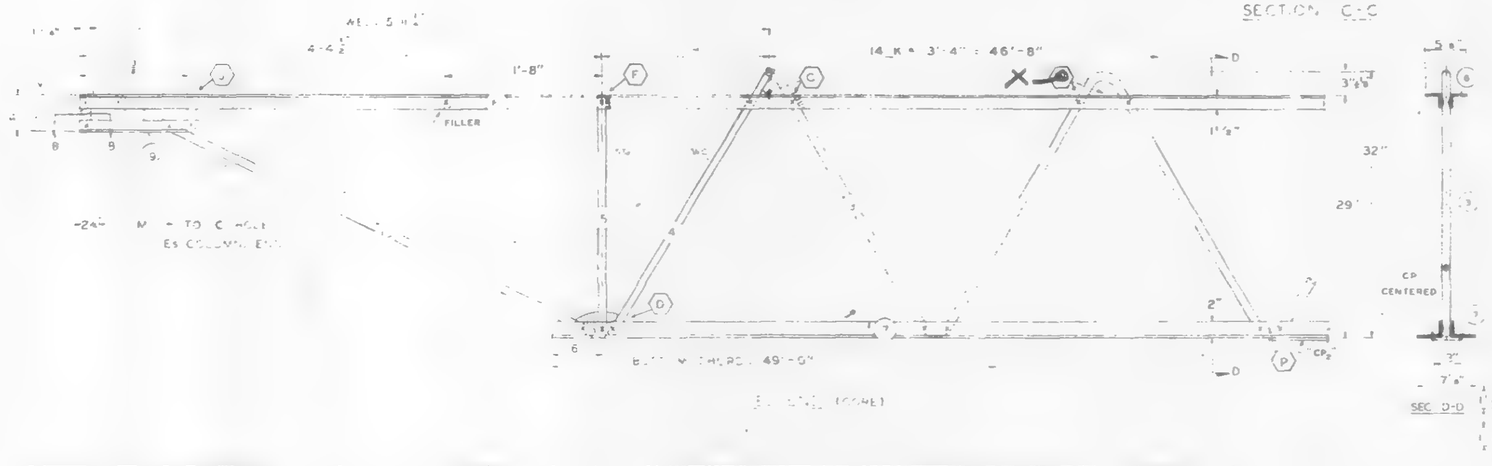


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmmm).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



SECTION B-B

NO.	DATE	REVISION	BY
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

6/13/68 WAB

REF DRWGS

T-AB1-4	4 - 5 - 58
T-AB1-52	2-15-68
T-AB1-53	4-1-68
T-AB4-50 & 50.2	10-20-67
T-AB1-2	- - -
T-AB4-50*	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TEE MK	TYPE STEEL	CHORD SIZE	LENGTH	WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	FILLER DIA	M ℄ HOLE	TRUSS DATA		CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58II	6	A242	2"x1"x¼"	58-11"	7	A36	3"x2"x.33	49'-10"	3	A36	.109	87-2½"	14 @ 3'-4" = 46'-8"	11	.109	56-5¾"			CP	A36	4x3	40'-0"

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "T" STRUT TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T7G-58	9	A242	2"x1"x¼"	1'-0"	6	A36	.09	6'-3⅛"	2	A36	.109	2'-7⅞"	A36	.109	4'-3⅛"	A36	.109	2'-9½"	05	A242	75	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END El END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "T" STRUT TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENG	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7G-58II	5	A242	2"x1"x¼"	1'-1½"	5	A242	.114	4'-9½"	5	A242	.14	2'-4¾"	A242	.14	4'-8"	A242	.114	7'-8"	—	—	—	4	A242	1	.114	3'-0"	—	—	—	—	—

STEEL TRUSS DETAILS

FOR

FLOOR TRUSS C32T7G 58'-11" OVERALL

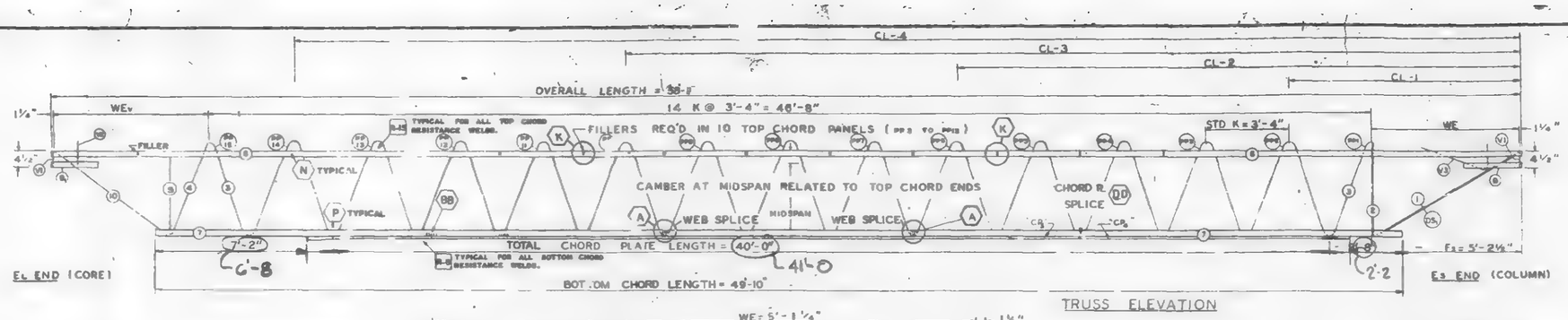
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

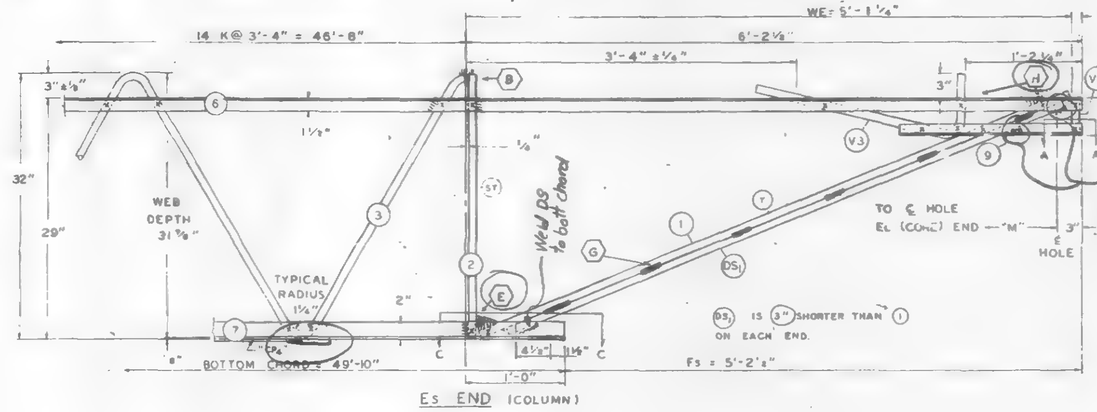
FABRICATED AT ALTON, ILLINOIS PLANT T-AB1-4

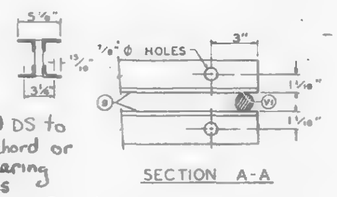
ENGINEERED FOR FABRICATION BY LWA DATE APR 18, 1968

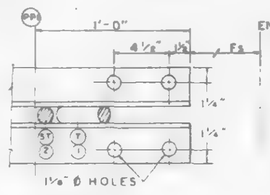
DETAILED BY A.C. WEBER DATE 221 ST207G



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 1/8"
WEB DEPTH	31 7/8"	± 1/4"



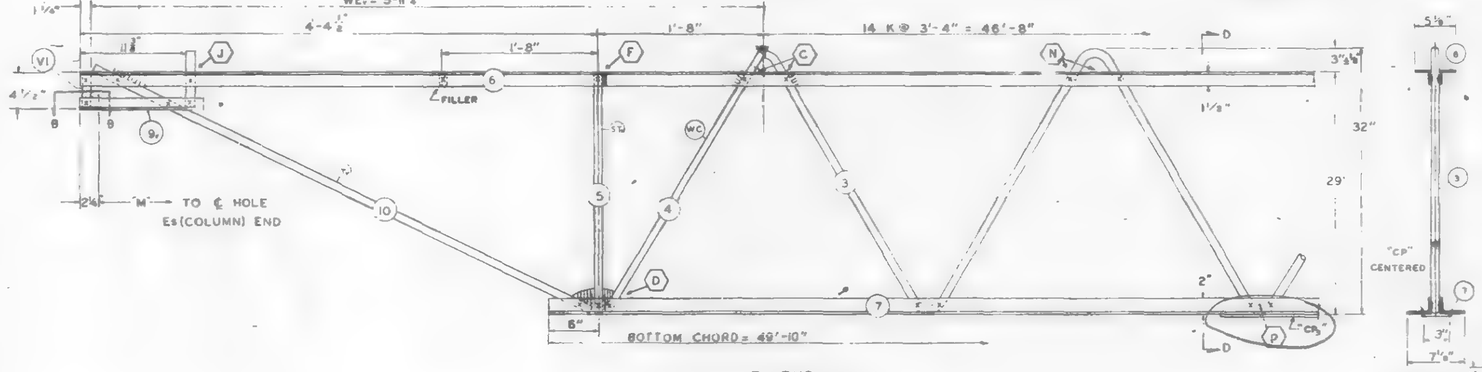


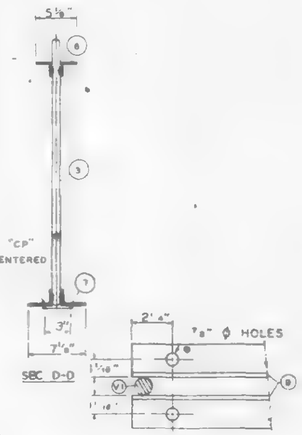


ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmm).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.





TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" ℄ HOLE	TRUSS DATA		CHORD PLATES						
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF ℄	NO	DIA			MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7G-5811	6	A242	2"x1 1/2"x.31	58'-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2 1/2"	14 @ 3'-4" = 48'-8"	11	1.09	58'-5 3/4"		CP1	A36	1/4"x3"	30'-0"	CP2	A36	1/4"x3"	10'-0" — 11'-0"

COLUMN END	E3 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T7G-5811	9	A242	2"x1 1/2"x.25	1'-10"	6'-1'-6"	1	A36	1.09	6'-5"	2	A36	1.09	2'-7 5/8"	A36	1.09	4 5/8"		1.09	2'-9'-8"	DS1	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/8"	36'-2 1/4"	49'-6 1/2"	5'-2 1/2"

CORE END	E1 END	TRUSS DESIGNATION	BEARING ANGLES				WE1	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						WEB "WC"				WEB "WT"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T7G-5811	8	A242	2"x1 1/2"x.25	1'-1 1/2"	5'-11 1/2"	10	A242	1.14	4'-9 1/2"	5	A242	1.14	2'-4 3/16"	A242	1.14	4 1/2"	A242	1.14	7 1/8"	—	—	—	4	A242	1	1.14	3'-0 1/8"	-	—	—	—	—

4/26/69 SK

REF DRWGS		
	7-AB1-4	4-15-68
	7-AB1-52	2-15-68
	7-AB1-53	4-1-68
	7-AB4-30 & 30.2	10-20-67
	7-AB3-2	1-3-68
	7-AB4-30.5	10-20-67

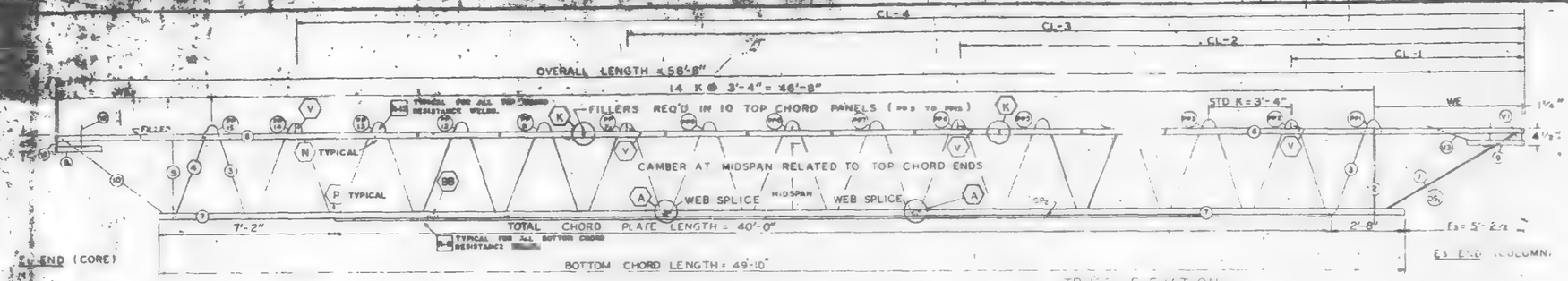
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

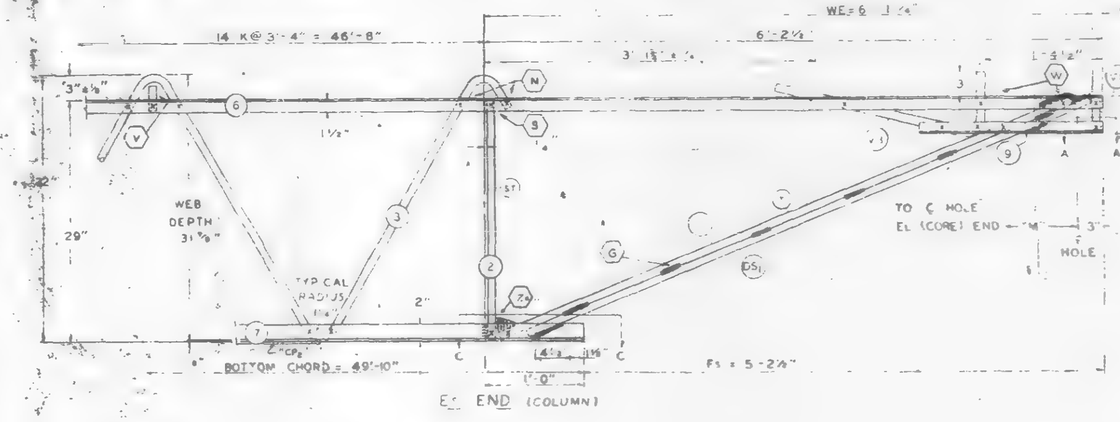
FABRICATION BY LACLEDE STEEL COMPANY

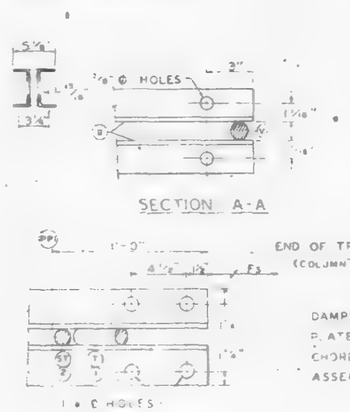
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE DRAWN BY L.E. APR 18,1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE CHECKED BY T.M CHURA DATE APR 18, 1968
DETAILED BY A.C. WEBER	IN CHARGE OF PROD DEV FABRICATION CONT NO W.T.C. 221 SHEET NO ST207G



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/2"	± 3/8"
DESIGN DEPTH	29"	± 1/2"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





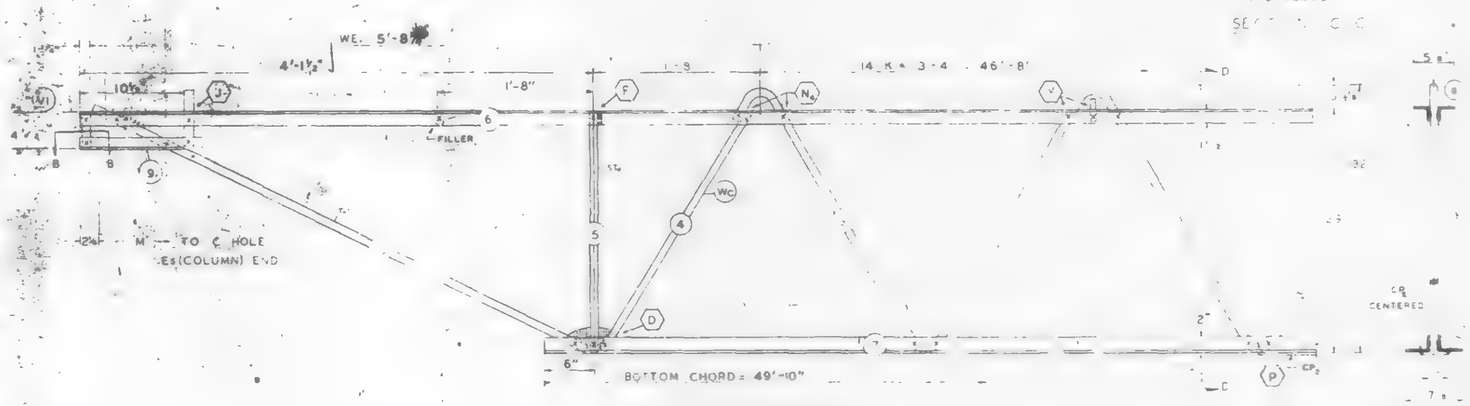
SECTION A-A

SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (▲).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



SECTION B-B

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-28-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB1-?	1-?-??
7-AB4-505	10-28-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF ▲	FILLER NO	DIA	℄ "M" HOLE	CONNECTION FILLERS NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7H 588	6	A242	2"x1"x.31	58'-8"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88-1/2"	14 @ 3'-4" = 46'-8"	11	1.09	58'-2 3/4"	4	1.09"	3"	CP	A36	1/4x3	40'-0"

TRUSS DESIGNATION	Fs	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7H 588		9	A242	2"x1"x.25	2'-8"	5'-8"	1	A36	1.09	6'-3 1/4"	2	A36	1.09	2'-4 5/8"	A36	1.09	4 3/8"	A36	1.09	2'-9 1/8"	05	A242	.92	6'-3 1/4"

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7H 588	9	A242	2"x1"x.25	1'-0 1/2"	5'-8"	10	A242	1.14	4'-7"	5	A242	1.14	2'-4 5/8"	A242	1.14	4"	A242	1.14	7"	—	—	—	4	A242	1	1.14	2'-	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10"	36'-2 1/8"	49'-6 1/4"	5'-2 1/4"

CONSTRUCTION DEPT.

STEEL TRUSS DETAILS

FLOOR TRUSS C32T7H 58'-8" OVERALL

WORLD TRADE CENTER TOWER A-B

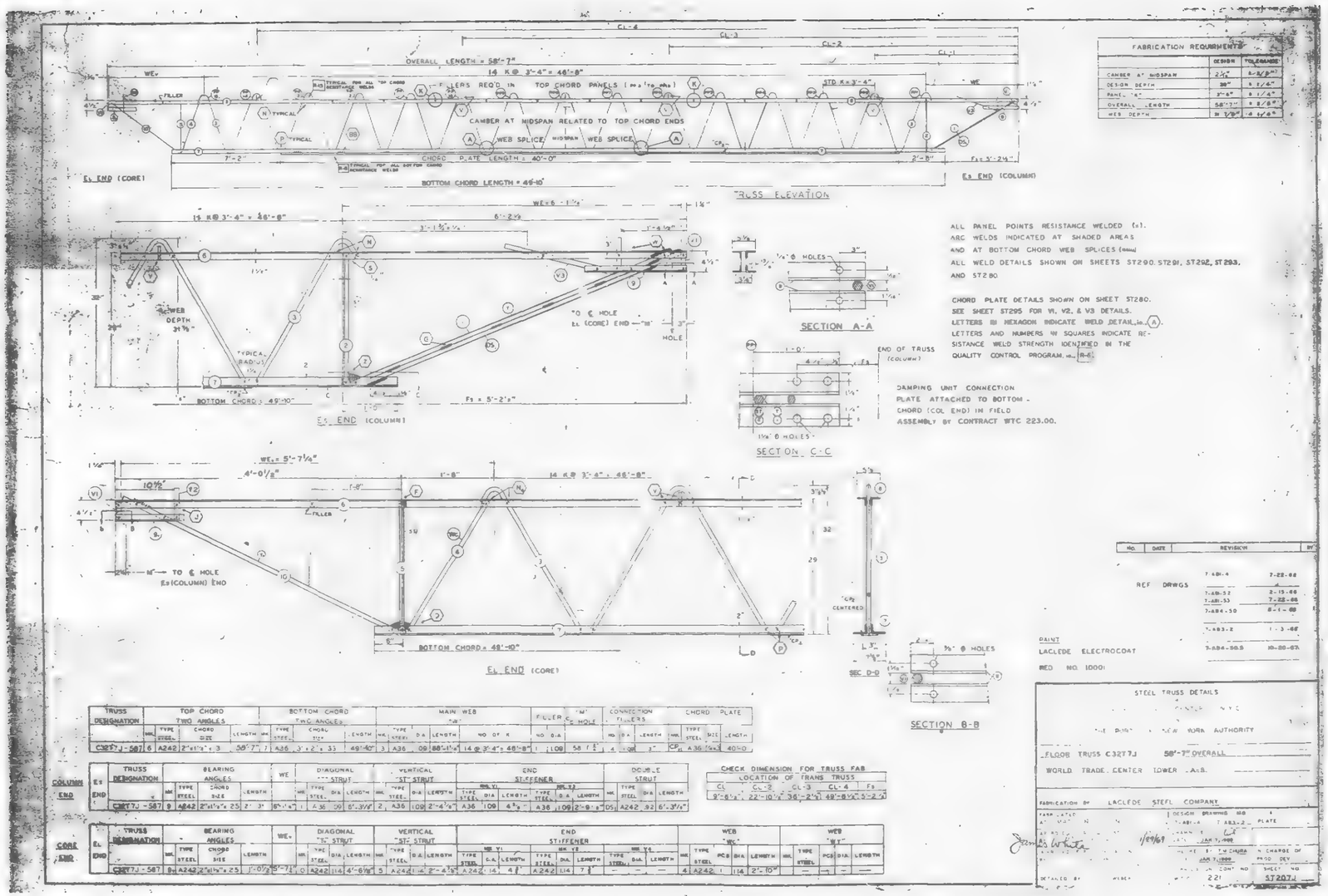
COMPANY

7-AB1-2 PLATE

APRIL 10, 1969

APRIL 10, 1969

ST207H



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/8"	± 3/8"
DESIGN DEPTH	28"	± 1/8"
PANEL "A"	3'-0"	± 1/4"
OVERALL LENGTH	58'-7"	± 3/8"
WEB DEPTH	31 5/8"	-0 1/16"

ALL PANEL POINTS RESISTANCE WELDED (▭).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▭▭▭)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293,
AND ST280

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R-6.

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-22-66
7-AB1-52	8-15-66
7-AB1-53	7-22-66
7-AB4-50	8-1-66
7-AB3-2	11-3-66
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES NO.	TOP CHORD TWO ANGLES TYPE STEEL	TOP CHORD TWO ANGLES CHORD SIZE	TOP CHORD TWO ANGLES LENGTH	BOTTOM CHORD TWO ANGLES NO.	BOTTOM CHORD TWO ANGLES TYPE STEEL	BOTTOM CHORD TWO ANGLES CHORD SIZE	BOTTOM CHORD TWO ANGLES LENGTH	MAIN WEB "W" NO.	MAIN WEB "W" TYPE STEEL	MAIN WEB "W" DIA.	MAIN WEB "W" LENGTH	MAIN WEB "W" NO OF K	FILLER "F" NO.	FILLER "F" DIA.	CONNECTION PLATES NO.	CONNECTION PLATES DIA.	CONNECTION PLATES LENGTH	CHORD PLATE NO.	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH
C3277J-587	6	A242	2"x1½"x.3	58'-7"	7	A36	3"x2"x.33	49'-10"	3	A36	09	88'-1½"	14 @ 3'-4" = 46'-8"	1	1.09	58	1"	3"	CP1	A36	9½x2	40'-0

TRUSS DESIGNATION	Es END	BEARING ANGLES NO.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT NO.	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA.	DIAGONAL "D" STRUT LENGTH	VERTICAL "ST" STRUT NO.	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA.	VERTICAL "ST" STRUT LENGTH	END STIFFENER NO. Y1	END STIFFENER TYPE STEEL	END STIFFENER DIA.	END STIFFENER LENGTH	END STIFFENER NO. Y2	END STIFFENER TYPE STEEL	END STIFFENER DIA.	END STIFFENER LENGTH	DOUBLE STRUT NO.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH
C3277J-587	COLUMN END	9	A242	2"x1½"x.25	2'-3"	8'-1½"	1	A36	.09	8'-3⅛"	2	A36	1.00	2'-4⅛"	2	A36	1.09	4'-8"	2	A36	1.09	2'-9⅛"	105	A242	.32	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL	CL-2	CL-3	CL-4	Fs
9'-6¼"	22'-10¼"	36'-2½"	49'-8¼"	5'-2¼"

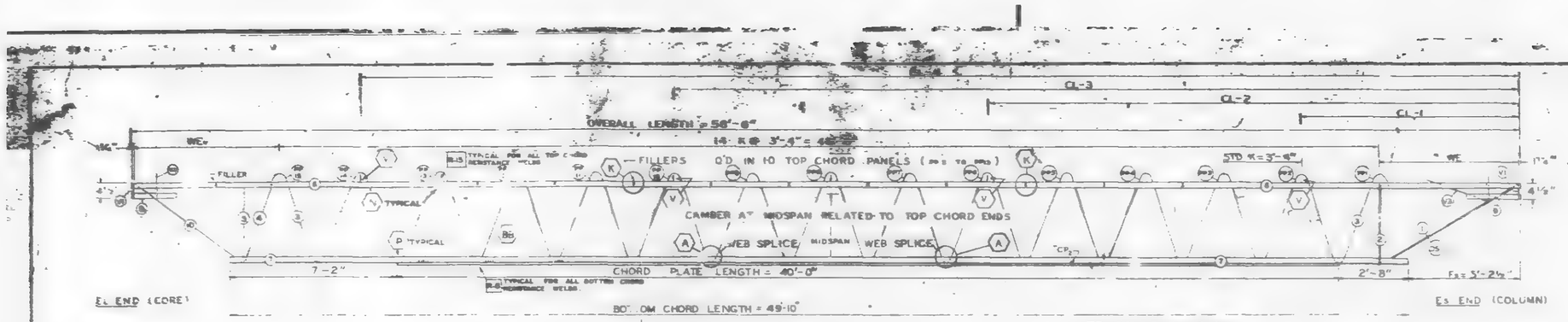
TRUSS DESIGNATION	EL END	BEARING ANGLES NO.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT NO.	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA.	DIAGONAL "D" STRUT LENGTH	VERTICAL "ST" STRUT NO.	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA.	VERTICAL "ST" STRUT LENGTH	END STIFFENER NO. Y1	END STIFFENER TYPE STEEL	END STIFFENER C.A.	END STIFFENER LENGTH	END STIFFENER NO. Y2	END STIFFENER TYPE STEEL	END STIFFENER DIA.	END STIFFENER LENGTH	END STIFFENER NO. Y3	END STIFFENER TYPE STEEL	END STIFFENER DIA.	END STIFFENER LENGTH	WEB "WC" NO.	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA.	WEB "WC" LENGTH	WEB "WT" NO.	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA.	WEB "WT" LENGTH
C3277J-587	CORE END	8	A242	2"x1½"x.25	1'-0⅞"	5'-7⅛"	0	A242	1.14	4'-6⅛"	5	A242	1.14	2'-4⅞"	2	A242	1.14	4'-8"	2	A242	1.14	7'-8"	—	—	—	—	4	A242	1	1.14	2'-10"	—	—	—	—	—

STEEL TRUSS DETAILS
PORT AUTHORITY OF N.Y. & N.J.
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C3277J 58'-7" OVERALL
WORLD TRADE CENTER TOWER A & B

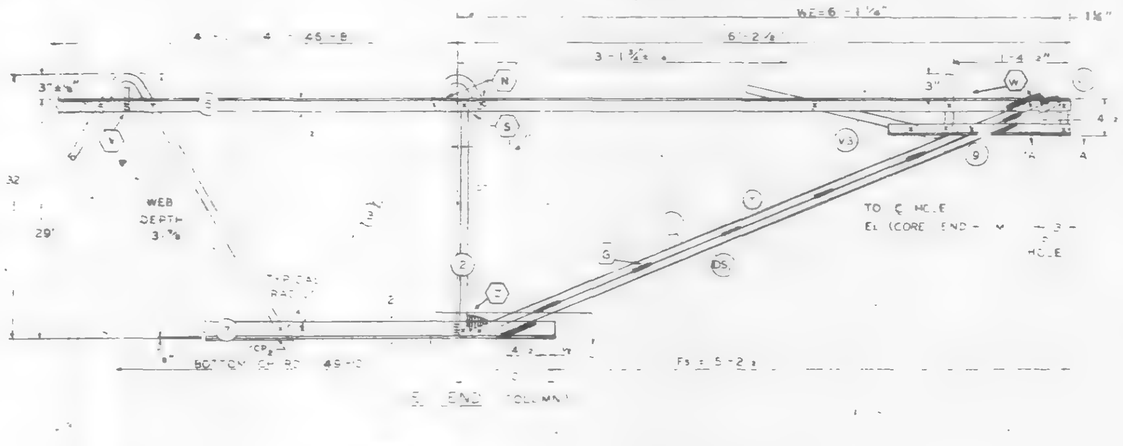
FABRICATION BY LACLEDE STEEL COMPANY

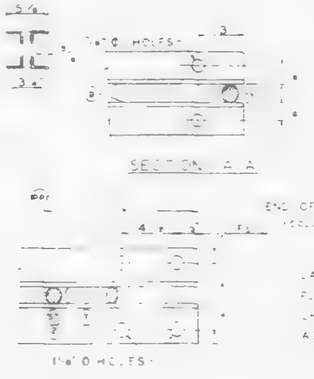
PARK AVE	DESIGN DRAWING NO.
AT 46th ST	7-AB1-4 7-AB3-2 PLATE

APPROVED 1/29/67 DRAWN JAN 7, 1969
CHECKED JAN 7, 1969 IN CHARGE OF MOD DEV
DETAILED BY WJBC CONT NO 221 SHEET NO ST2077



TRUSS ELEVATION





ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (■■■■)

ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, **ST292**, **ST293**, AND ST295

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

LEGEND: N.T. CONNECTION
PLATE = ADHERE TO BOTTOM
CHORD SPLICE IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00

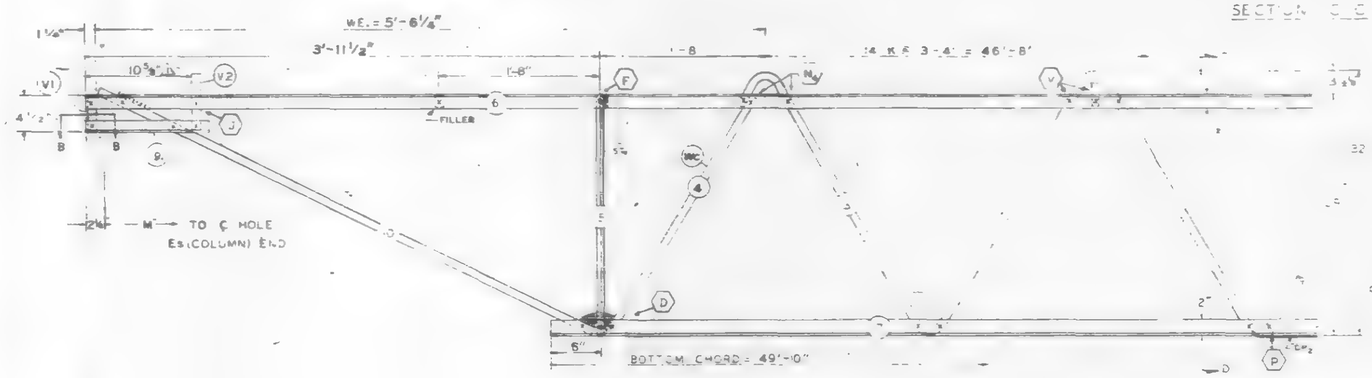
FABRICATION	
DESIGN DEPTH	29"
PANEL "R"	3'-4"
OVERALL LENGTH	58'-6"
WEB DEPTH	31 7/8"

NO.	DATE	REVISION	BY
1	2-13-69	AS NOTED	

REF DRWGS

7-AB4-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-13-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 1000



SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD "WO ANGLES				"MAIN WEB "W"					FILLER	℄ "M" HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF @	NO	DIA	NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T7K-566	6	A242	2"x1½"x¼ x 3	56'-6"	7	A36	3 x 2" x ⅜	49'-10"	3	A36	1.09	88'-1-¼"	14 @ 3'-4" = 46'-8"	8	1.09	58-9 2/4	4	1.09	3"	CP2	A36	⅝x3	40'-0"

	TRUSS DESIGNATION	BEARING ANGLES				WE.	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	*TH	MK.	TYPE STEEL	DIA	LENGTH
COLUMN END E2 END	C32T7K-586	9	A242	2"x1½"x.25	2'-3"	6'-1'-4"	1	A36	.109	6'-3⅞"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅜"	A36	1.09	2	9	DS	A242	.92	6'-3⅞"

	TRUSS DESIGNATION	BEARING ANGLES				WE.	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						WEB "WC"				WEB "WT"			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
CORE END E1 END	C32T7K-586	9	A242	2"x1½"x.25	1'-0½"	5'-6⅛"	10	A242	1.14	4'-5⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-10"	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

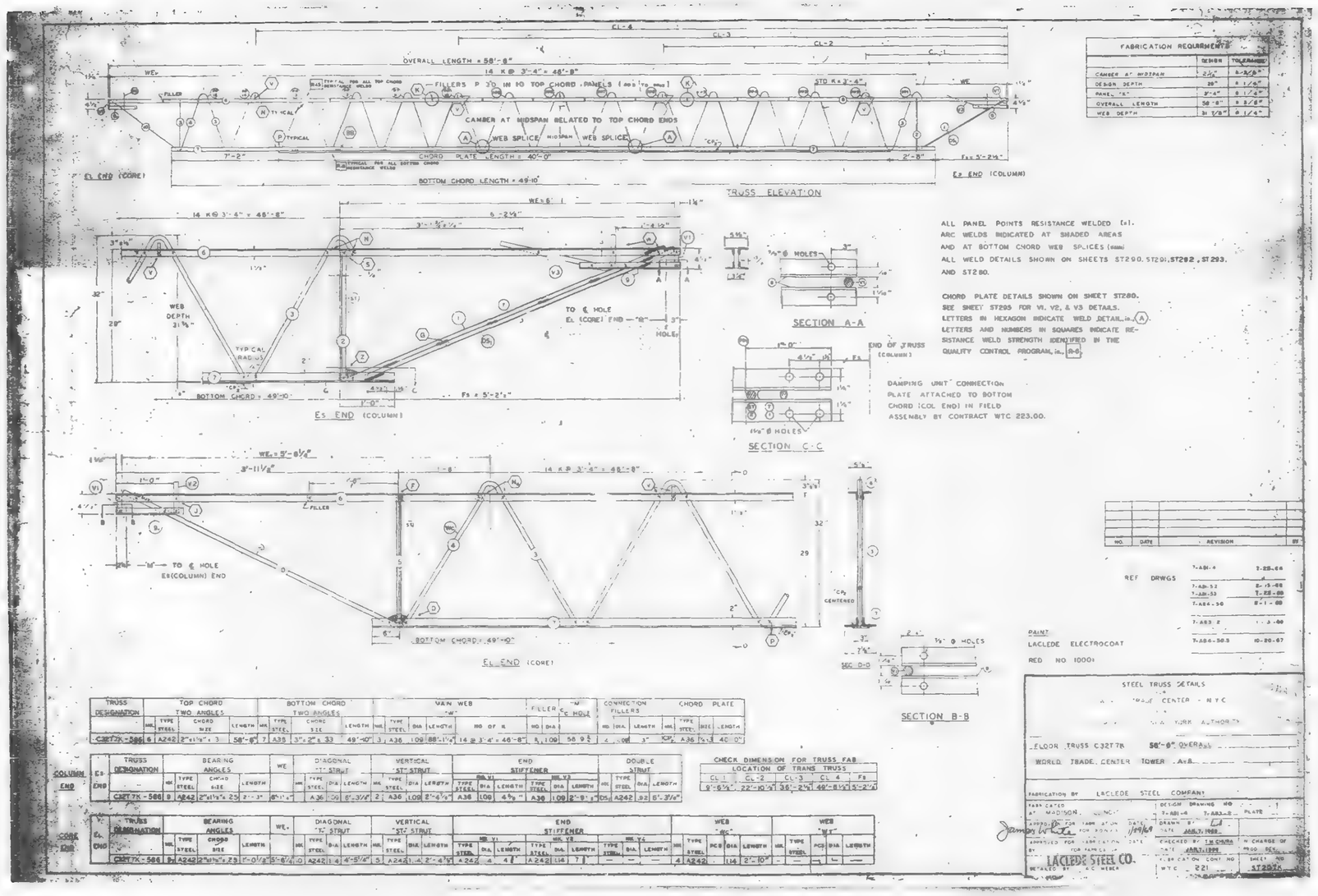
FLOOR TRUSS C32T7K 58'-6" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT MACHESTER WE. | DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
FABRICATED FOR ABBE ATTEN DATE | DRAWN BY
BY [illegible] FOR ABBE ATTEN DATE 2/28/69 | DATE JAN. 7, 1969
ASSISTED FOR ABBE ATTEN DATE | CHECKED BY TSUCHURA IN CHARGE BY
BY [illegible] DATE JAN. 7, 1969 PROD DEPT
DETAILED BY [illegible] | FABRICATION CONT NO. | SHEET NO
WTC 221 ST2[illegible]

LACLEDE STEEL CO.



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	31 5/8"	± 1/4"

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	2-25-66
7-AB1-52	2-15-66
7-AB1-53	7-25-66
7-AB4-30	8-1-66
7-AB3-2	11-3-66
7-AB6-30.3	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF ℄	FILLER "C" ℄ HOLE NO	DIA	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7K-586	6	A242	2"x1 1/8"x 3	58'-8"	7	A36	3"x 2"x 33	49'-10"	3	A36	1.09	88'-1 1/4"	14 @ 3'-4" = 46'-8"	8, 10@	56 9/32	4	1.06	3"	10@	A36	1/4"x 3	40'-0"

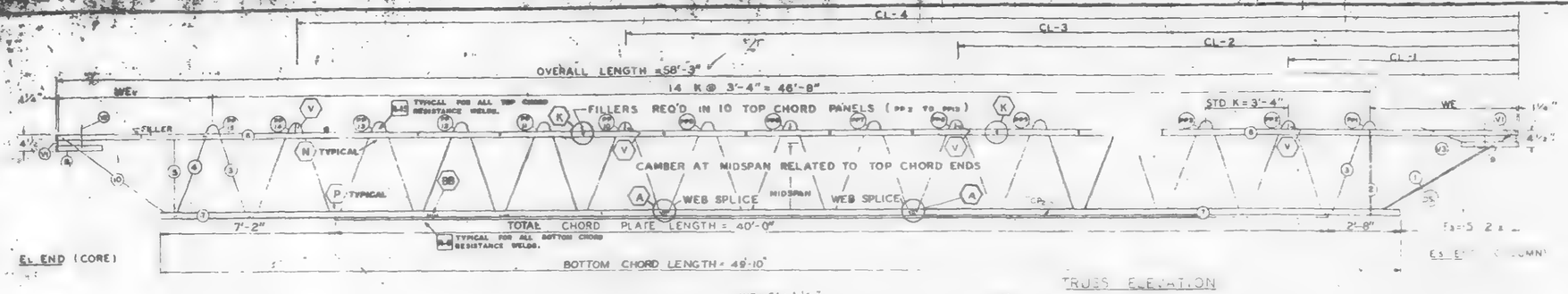
COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE MK	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
E1 END	C32T7K-586	9	A242	2"x1 1/8"x 25	2'-3"	8	1	A36	.09	6'-3 7/8"	2	A36	1.09	2'-4 1/8"	A36	1.09	4 5/8"	A36	1.09	2'-9 1/8"	05	A242	.92	6'-3 7/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS					
CL-1	CL-2	CL-3	CL-4	E2	
9'-5 1/8"	22'-10 3/8"	36'-2 5/8"	46'-8 1/2"	53'-2 1/4"	

CORE END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "W" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "W1" MK	TYPE STEEL	PCS	DIA	LENGTH
E1 END	C32T7K-586	11	A242	2"x1 1/8"x 25	1'-0 1/2"	5-6 1/4"	10	A242	1.4	4'-5 1/4"	5	A242	1.4	2'-4 5/8"	A242	4	4	A242	1.14	7	—	—	—	4	A242	1.14	2'-10"	—	—	—	—	—

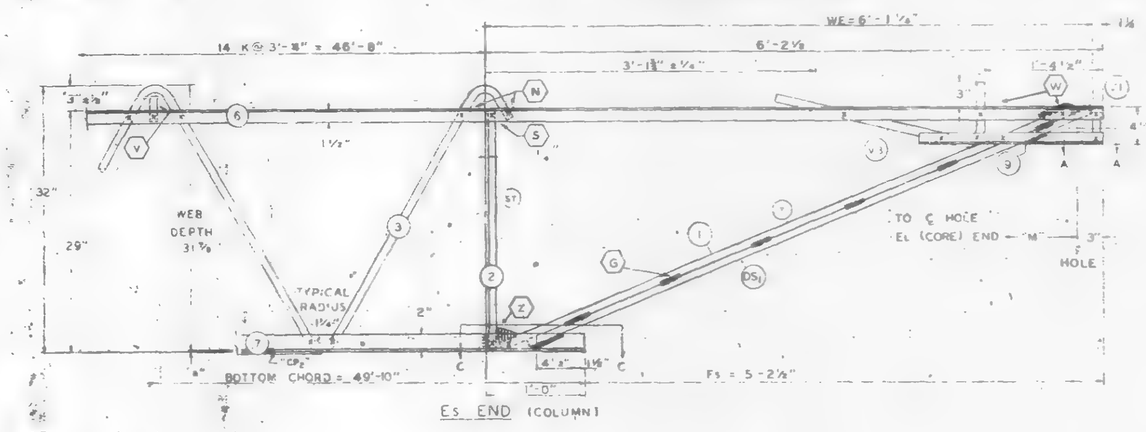
STEEL TRUSS DETAILS	
A ... TRADE CENTER - N.Y.C.	
... PORT AUTHORITY	
FLOOR TRUSS C32T7K	58'-0" OVERALL
WORLD TRADE CENTER TOWER A+B	
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILL.	DESIGN DRAWING NO 7-AB1-6 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR OWNER	DATE 11/19/68
DRAWN BY CA	DATE AUG. 7, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE
CHECKED BY T.M. CHUNG	DATE JAN. 7, 1969
FABRICATION CONT. NO WTC - 221	IN CHARGE OF WORK DET. ST293
DETAILED BY A.C. WEBER	

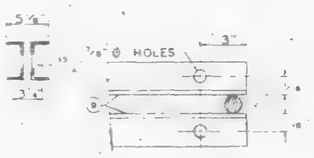
LACLEDE STEEL CO.

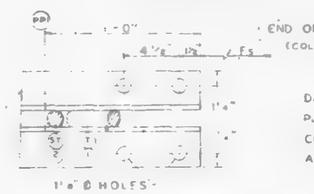


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2½"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	56'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



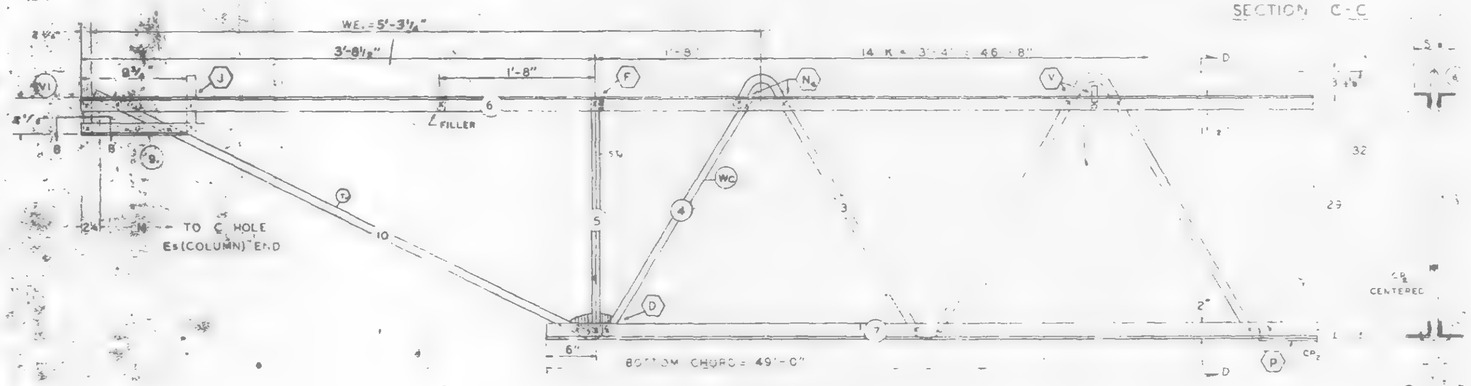




ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (ARC).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



SECTION D-D

SECTION B-B

NO	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB1-2	1-3-68
7-AB4-505	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				SOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH - NO OF ℄	NO	DIA	NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE LENGTH
C32T7M 583	6	A242	2"x1"x¼"x 3"	58'-3"	7	A36	3"x2"x.33	49'-10"	3	A36	109	88-1 1/16" 14 @ 3'-4" = 46'-8"	11	109	57'-9 3/4"	4	109	3"	CP2	A36	4x3 40'-0"

Es	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T7M 583	9	A242	2"x1"x¼"x 25	2'-3"	5'-1'-6"	1	A36	109	6'-3 7/16"	2	A36	109	2'-4 3/8"	A36	109	4 3/8"	A36	109	2'-9 1/8"	DS1	A242	.92	8'-3 7/16"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/8"	

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4				WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
COLUMN END	C32T7M 583	9	A242	2"x1"x¼"x 25	1'-0"	5'-3 7/16"	10	A242	1.14	4'-2 5/8"	5	A242	1.14	2'-4 1/8"	A242	1.14	4"	A242	1.14	7"	—	—	—	4	A242	1	1.14	2'-0"	—	—	—	—	—

Jamie W. Whites 4/15/69

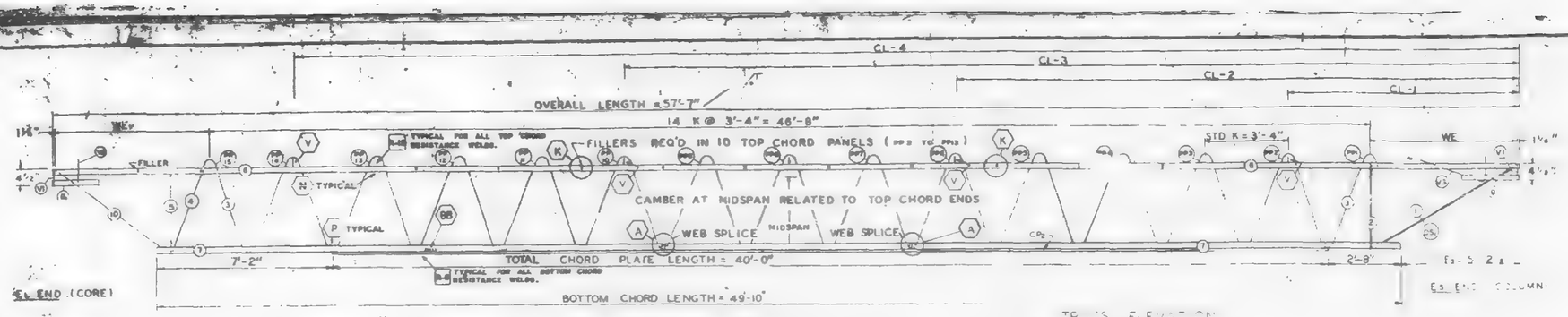
7-AB1-4	7-AB1-2	DATE	
APRIL 11, 1969			
APRIL 8, 1969			

STEEL TRUSS DETAILS

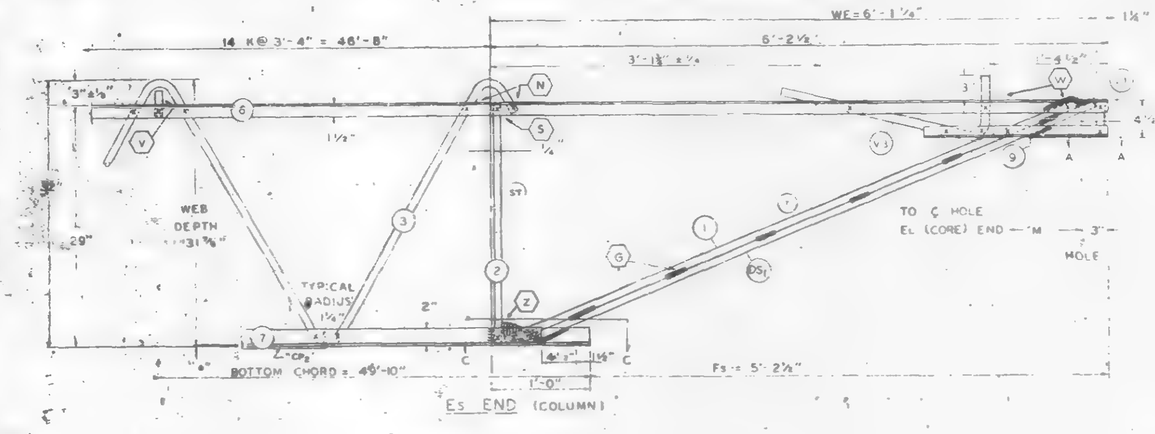
FLOOR TRUSS C32T7M 58'-3" OVERALL

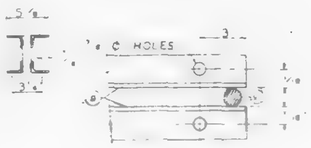
WORLD TRADE CENTER TOWER - A-B

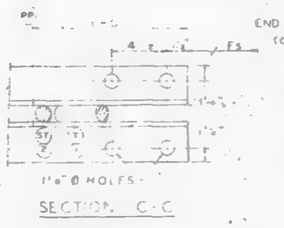
ST207M



TRUSS ELEVATION





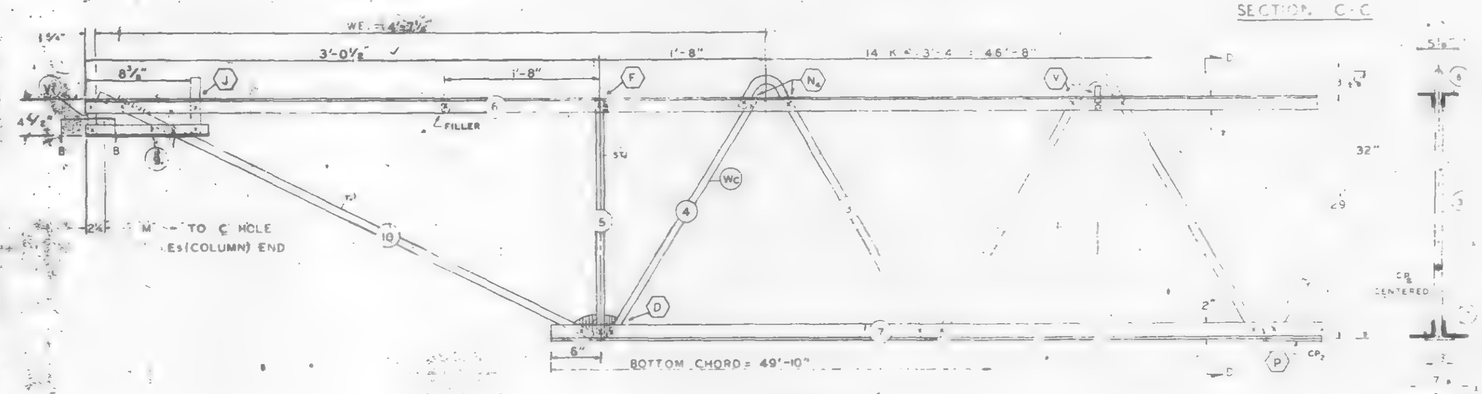


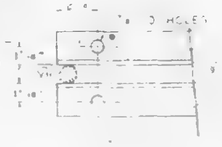
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS		
	CAMBER	TOL. (Over)
CAMBER AT MIDSPAN	2½"	± 3/8"
DESIGN DEPTH	30"	± 1/4"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 1/8"	± 1/16"





TRUSS DESIGNATION		TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	FILLER DIA	"M" ℄ HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32	577	6	A242	2"x1 1/2"x.31	57'-7"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88-1 1/16"	14 @ 3'-4" = 46'-8"	11	1.09	57'-1 3/16"	4	1.08"	3"	CP	A36	1/2x3	40'-0"

Es END	TRUSS DESIGNAT.	MK	BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T7P 577	9	A242	2"x1 1/2"x.25	2'-3"	6'-1 1/2"	1	A36	.109	6'-3 1/16"	2	A36	1.05	2'-4 3/8"	A36	1.09	4 3/8"	A36	1.09	2'-9 1/16"	DS1	A242	.92	6'-3 1/16"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/16"	22'-10 1/2"	36'-2 1/8"	49'-6 1/2"	5'-2 1/2"

TRUSS DESIGNATION		BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "Wt" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7P 577	9	A242	2"x1 1/2"x.25	10 1/4"	4'-7 1/2"	10	A242	1.14	3'-8 1/2"	5	A242	1.14	2'-4 1/2"	A242	1.14	4"	A242	1.14	7"	—	—	—	4	A242	1	1.14	2'-10"	—	—	—	—	—

NO.	DATE	REVISION	BY
		7-ABI-4	7-22-68
		7-ABI-52	8-15-68
		7-ABI-53	7-22-68
		7-AB4-50	8-1-68
		7-AB3-2	1-31-68
		7-AB4-50.5	10-20-67

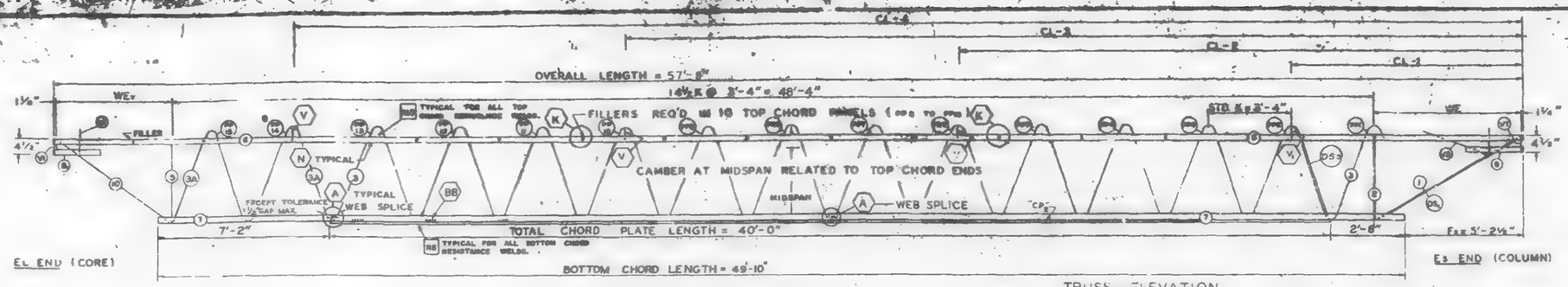
REF DRWGS

LACLEDE ELECTROCOAT
RED NO 10001

TISHMAN
SPEYER PROPERTIES
DEMONSTRATION BLDG.

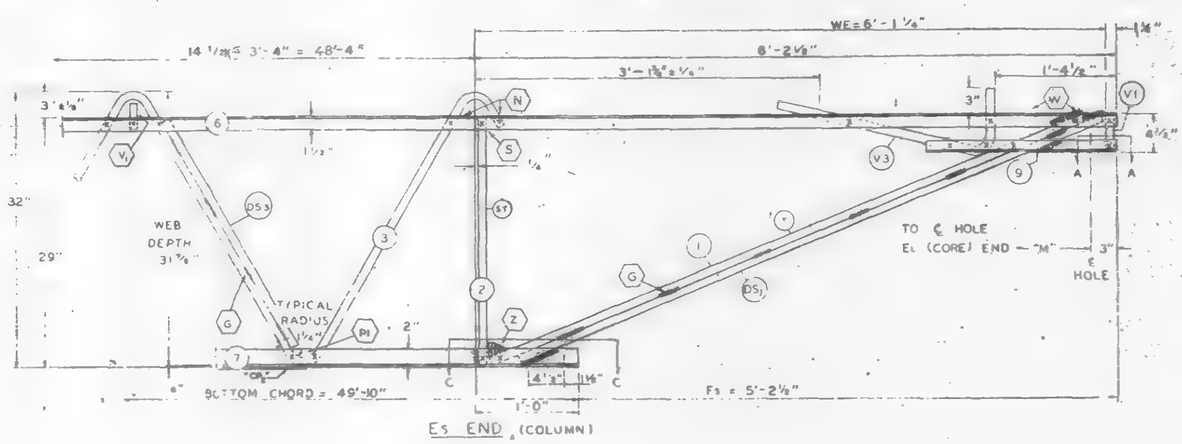
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T7P 57'-7" OVERALL
WORLD TRADE CENTER TOWER — A-B

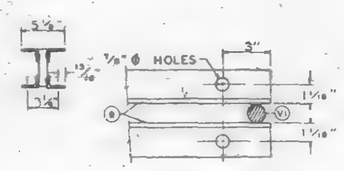
FABRICATOR: LEAD EDGE STEEL COMPANY
AT: NEW SOUTH WALES
APPROVED FOR FABRICATION: DATE
APPROVED FOR ERECTION: DATE
DESIGN DRAWING NO: 7-ABI-6 7-AB3-2 PLATE
DRAWN: B DATE: APRIL 15, 1969
CHECKED BY TM CHURA DATE: APRIL 15, 1969
IN CHARGE OF PROD. DEV.
SHEET NO: ST2078

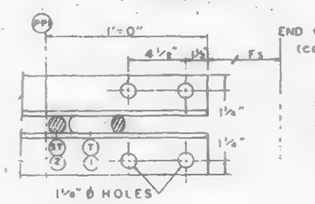


TRUSS ELEVATION

FABRICATION REQUIRED		
	SHOP	FIELD
CAMBER AT MIDSPAN	2"	
DESIGN DEPTH	32"	31 7/8"
PANEL "K"	3'-4"	
OVERALL LENGTH	57'-9"	57 9/8"
WEB DEPTH	31 3/8"	31 1/4"



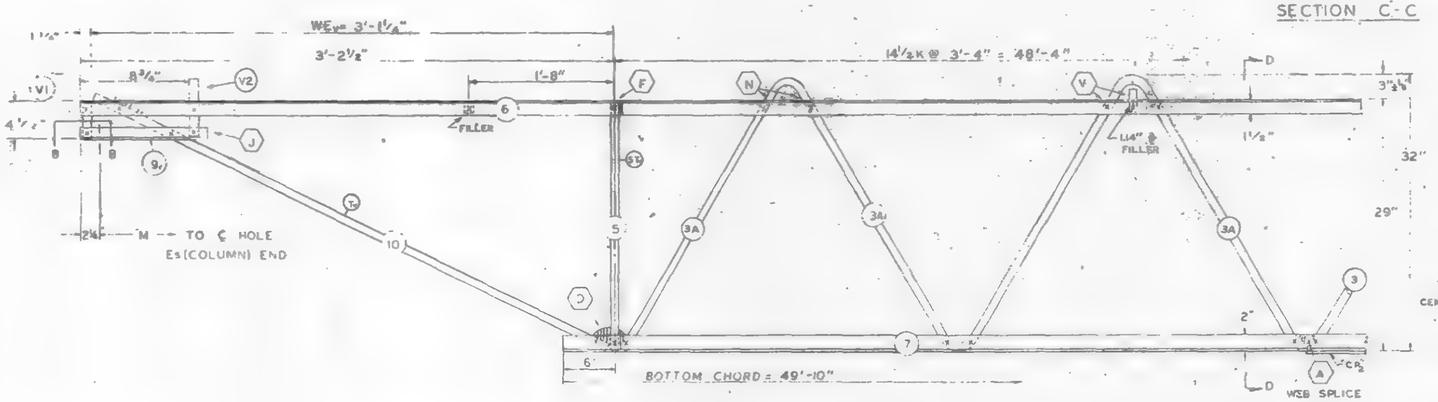


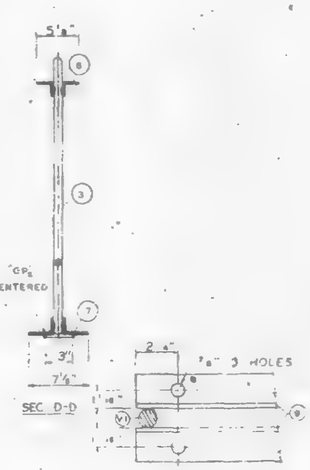


ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.





VOID

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8N 579	6	A242	2"x1½"x.25	57'-9"	7	A36	3"x2"x.33	49'-10"	3 3A	A36 A242	1.09 1.14	78'-3¾" 112'-5½"	12 @ 3'-4" = 41'-8" 2 @ 3'-4" = 6'-8"	11	1.09	57'-3¾"	3 1	1.09 1.14	3"	CP2	A36	¼"x3	40'-0"	DS3	A242	.75	2'-6¾"

COLUMN END	E3 END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T8N 579	9	A242	2"x1½"x.25	2'-3"	6'-1⅛"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9⅛"	DS1	A242	.92	6'-3¼"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V2 TYPE STEEL	DIA	LENGTH	WEB "W" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "W1" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8N 579	9	A242	2"x1½"x.25	10"	3'-1⅛"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅝"	A242	1.14	7⅜"	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	F3
9'-6½"	22'-10⅛"	36'-2½"	49'-6⅛"	2'⅛

NO.	DATE	REVISION	BY

REF. DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-3	8-1-68
7-AB3-2	1-3-68
7-AB4-30.3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

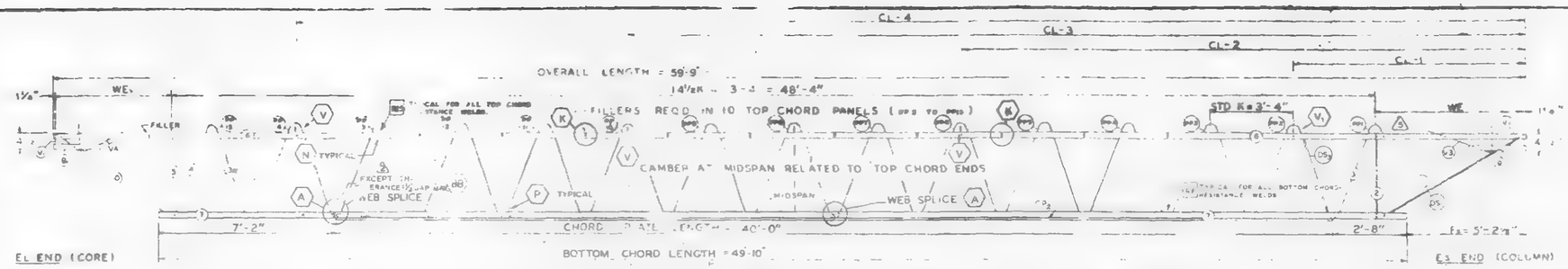
True length not required

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - @ N Y C
FOR
THE P[illegible] OF NEW YORK AUTHORITY

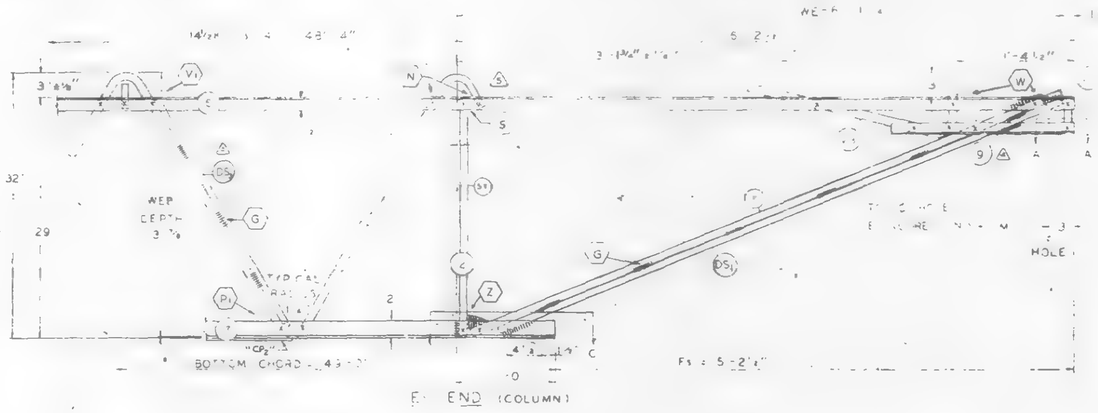
FLOOR TRUSS C32T8N ... 57'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

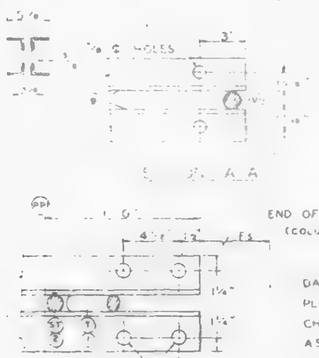
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-5 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY FOR POWER	DATE	DRAWN BY LL DATE MAY 1, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATION	DATE	CHECKED BY JR GAUL DATE MAY 1, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST280



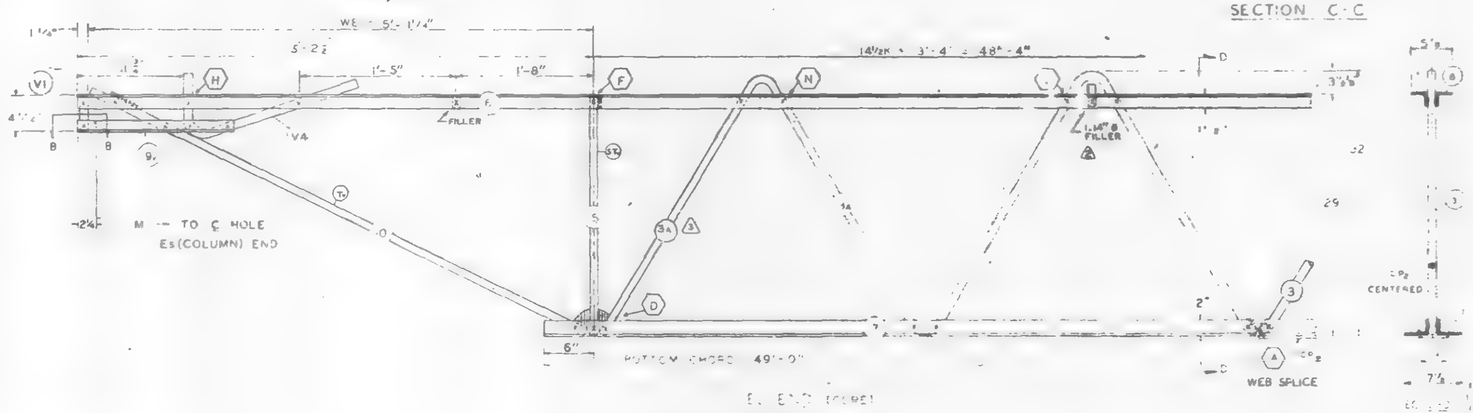
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	0 3/8"
DESIGN DEPTH		± 1/16"
PANEL	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	1/4"





ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280
SEE SHEET ST295 FOR ⅜, ½, ⅝ & ¾ DETAILS
CHORD PLATE SPLICES SHOWN ON SHEET ST280
LETTERS IN DIAMOND INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY
5	11-19-68	AS NOTED	GDE
4	7-22-68	MK (9) LENGTH & DS3 LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE; MAIN WEB	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-13-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB1-2	1-3-66
7-AB4-505	10-20-67

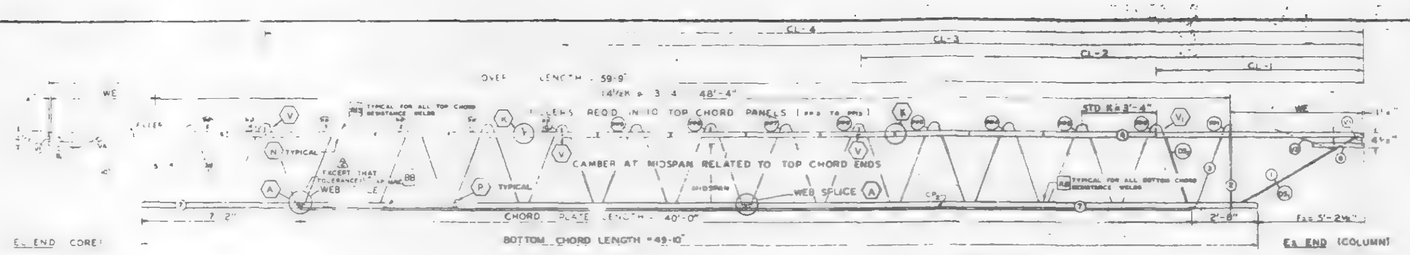
TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	℄ HOLE FILLER MK	NO OF ℄	NO	DIA	CONNECTION FILLER NO.	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
C32T8A-599	6	A242	2"x2"x¼"	59'-9"	7	A36	3"x3"x⅜"	3 3A	A36 A242	.109 1.14	78'-3¾"@ 12½"=3'-4"=41'-8" 2R @ 3'-4"=6'-8"	11	.109	59'-3⅝"	3	.109 1.14	5"	CP2	A36	24"x⅜"	40'-0"	DS2	A242	.75	2'-6¾"

COLUMN END	E3 END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T8A-599	9	A242	2"x2"x¼"	2'-3"	6'-1"	4	A36	.09	6'-3⅜"	2	A36	.09	2'-4⅞"	A36	.109	4⅜"	A36		9'-8"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"	

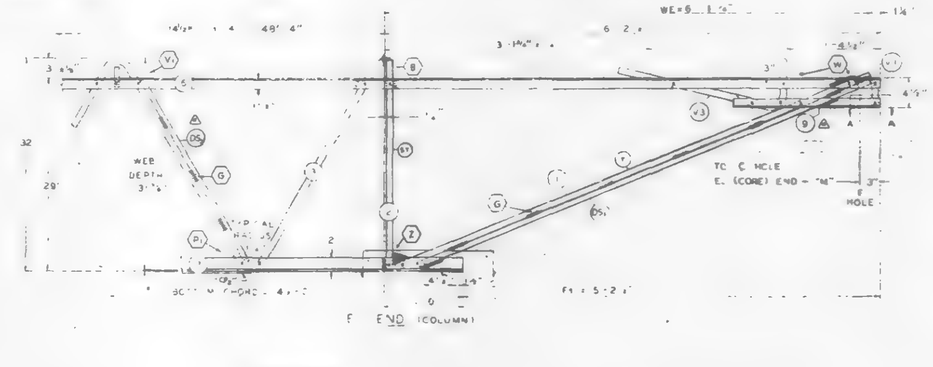
CORE END	E1 END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8A-500	D	A242	2"x2"x¼"	1'-7"	5'-1⅛"	10	A242	.14	5'-6½"	5	A242	.14	2'-4⅝"	A242	.14	4⅜"	—	—	—	A242	.14	2'-2"	—	—	—	—	—	—	—	—	—	—

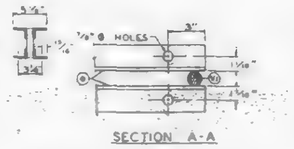
STEEL TRUSS DETAILS
FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATE DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION DATE 12/2/68 DRAWN BY A.C. DATE FEB. 24, 1969
APPROVED FOR FABRICATION DATE CHECKED BY J.R. PAUL IN CHARGE OF
BY J.R. FABRICATION DATE FEB. 26, 1969 MOD REV
DETAILED BY A.C. HEBER FABRICATION CONT NO WTC 221 SHEET NO ST2084

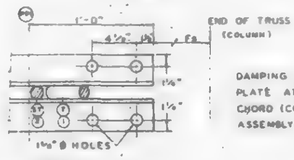


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	29 7/8"	± 1/4"

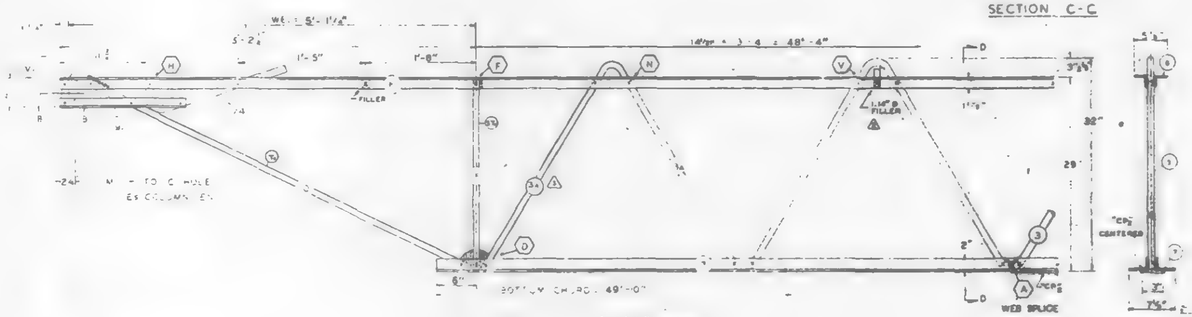


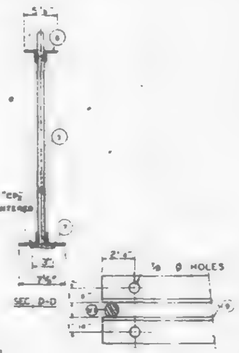




ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES ([illegible])
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00





SECTION B-B

		REVISION	BY
7-22-68		WK @ LENGTH & OS, LENGTH	LLC
7-8-68		TOLERANCE, WEB SPLICE, W.A.W. WEB	T.M.C.
6-27-68		AS NOTED	T.M.C.
6-22-68		GENERAL	T.M.C.

REF DRWGS

7-ABI-3	4-15-68
7-ABI-32	2-15-68
7-AB 33	1-3-68
7-AB4 30 & 50-7	10-20-67
7-AB3-2	1-3-68
7-AB4 30-5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLE	CONNECTION FILLER			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF ℄	NO DIA		MK	DIA	WIDTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8A 599	6	A242	2 x 2½ x .3	59'-9"	7	A36	3"x2½x.33	49'-10"	3	A36	1.09	11'-9⅞"	12½"@3'-4"=41'-8"	11	1.09	59-3⅝"	5	1½"	2"	CP	A36	⅝	40'-0"	15	A242	.75	2'-6⅞"
									4	A36	1.09	7'-0⅞"	12½"@3'-4"=41'-8"													

TRUSS DESIGNATION	EL END	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "T" STRUT MK	DIAGONAL "T" STRUT TYPE STEEL	DIAGONAL "T" STRUT DIA	DIAGONAL "T" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V3 TYPE STEEL	END STIFFENER MK V3 DIA	END STIFFENER MK V3 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
C32T8A-599	COLUMN END	9	A242	2½"x2½"x.25	2'-3"	8"	A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅛"	A36	1.09	4'-8"	A36	1.09	2'-9½"	DS	A242	.93	8'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	F2
9'-8⅝"	22'-10⅛"	36'-2⅛"	49'-8½"	5'-2½"

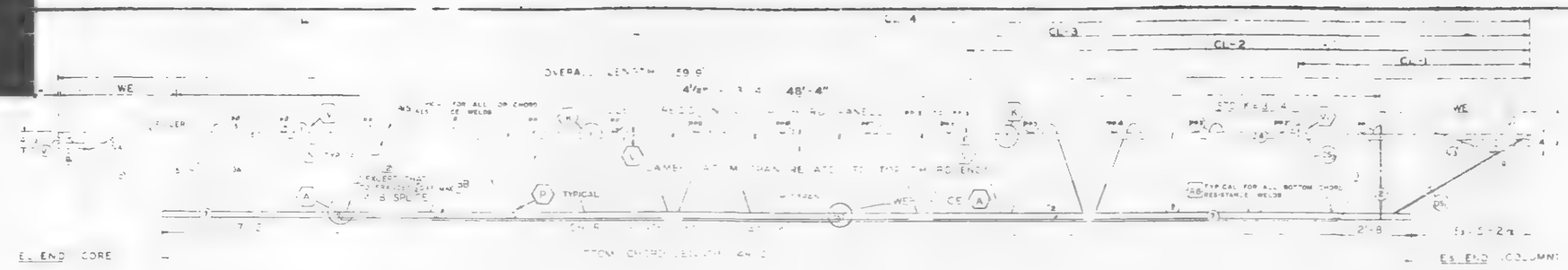
TRUSS DESIGNATION	EL END	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "T" STRUT MK	DIAGONAL "T" STRUT TYPE STEEL	DIAGONAL "T" STRUT DIA	DIAGONAL "T" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V3 TYPE STEEL	END STIFFENER MK V3 DIA	END STIFFENER MK V3 LENGTH	WEB "W" MK	WEB "W" TYPE STEEL	WEB "W" DIA	WEB "W" LENGTH	WEB "W" MK	WEB "W" TYPE STEEL	WEB "W" DIA	WEB "W" LENGTH
C32T8A 599	CORE END	8	A242	2"x2½"x.25	1'-7"	5'-1⅛"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4½"	A242	1.14	—	—	—	—	A242	1.14	2-2½	—	—	—	—	—	—	—

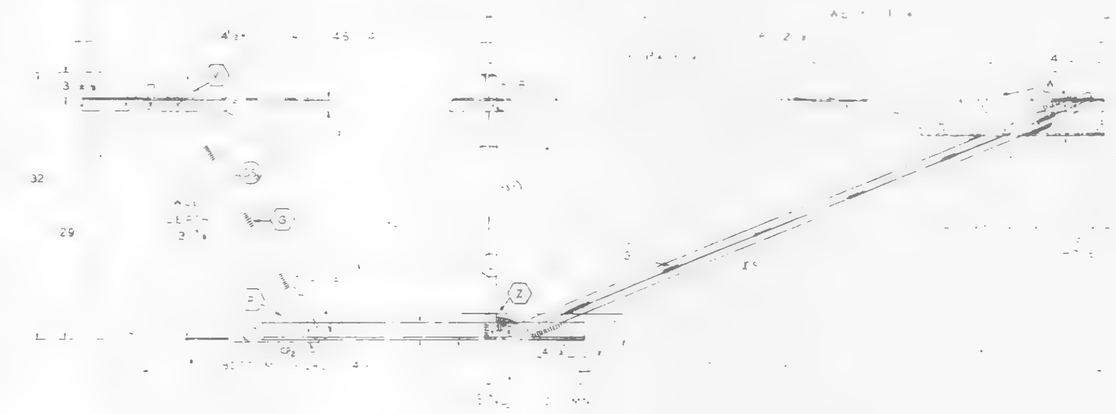
7-22-68	WK @ LENGTH & OS, LENGTH	LLC	
7-8-68	TOLERANCE, WEB SPLICE, W.A.W. WEB	T.M.C.	
6-27-68	AS NOTED	T.M.C.	
6-22-68	GENERAL	T.M.C.	
NO	DATE	REVISION	BY

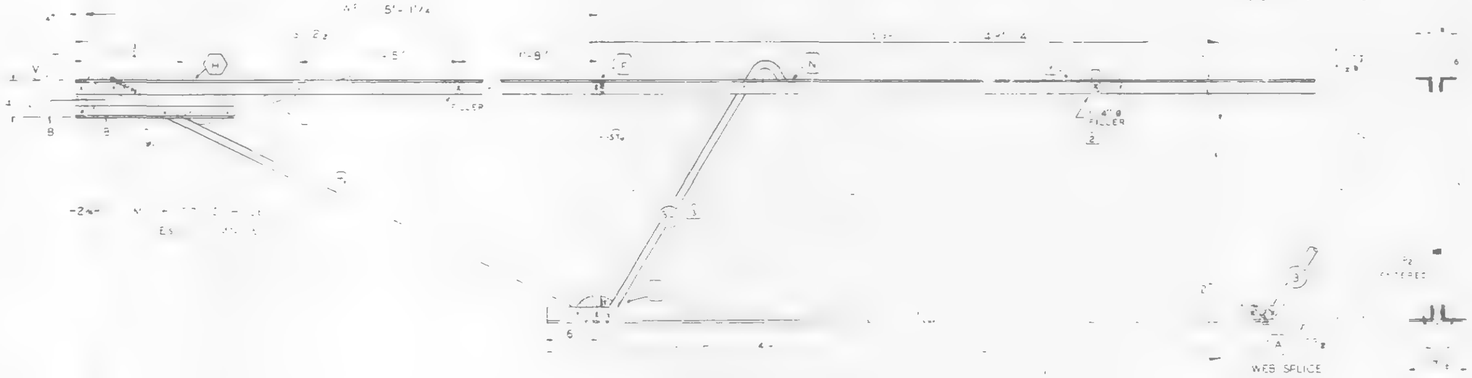
STEEL TRUSS DETAILS
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-ABI-3, 7-AB3-2, PLATE
APPROVED FOR FABRICATION BY [illegible] FOR POWERS DATE 8/16/68
DRAWN BY [illegible] DATE FEB 24,1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 26, 1968 IN CHARGE OF PROD. DEV.
DETAILED BY A.C. HIBBS
FABRICATION CONT NO WTC 221 SHEET NO ST20BA







FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	0"	± 3/8"
DESIGN DEPTH	8'-1 1/4"	± 1/4"
PANEL LENGTH	5'-4"	± 1/8"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	3'-7 5/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELDS OTHER THAN AS SHEET STEEL STDS. (ST 292.
AND STD
OF SHEET
SHOP PLATE DETAILS SHOWN ON SHEET ST286
LETTERS IN HEXAGON INDICATE WELD DETAIL, REF. A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, REF. R6

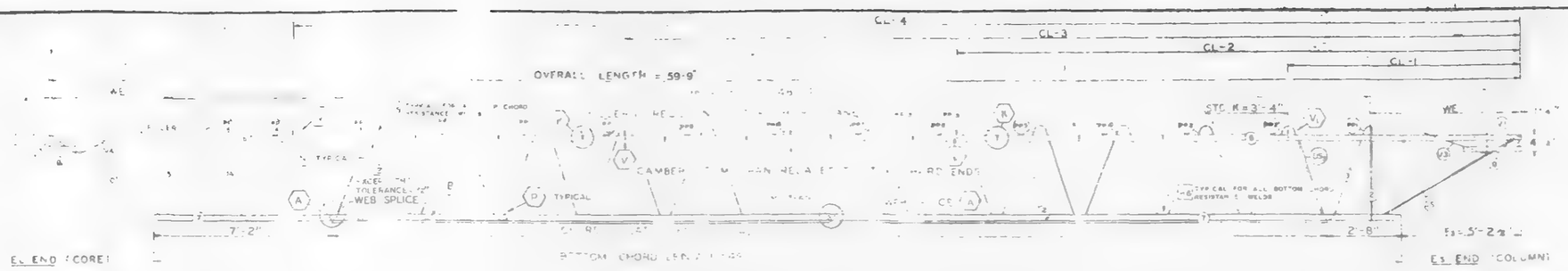
LAMINATED AT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD COL END IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00

NO.	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE, MAIN WEB	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF. DRAWS
7-AB1-52 2-5-68
7-AB1-53 2-3-68
7-AB4-50 & 50.2 10-20-67
7-AB5-2 1-3-68
AB4-705 10-20-67

SECTION B-B

| TRUSS DESIGNATION | TOP CHORD | | | | | | | | | | | | | | BOTTOM CHORD | | | | | | | | | | | | | |



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 1/2"
DESIGN DEPTH	>6	± 1/4"
PANEL "R"	4"	± 1/4"
OVERALL LENGTH	59-9"	± 1/2"
WEB DEPTH	3'-2"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED x
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES ▬
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST281
SEE SHEET ST295 FOR V3 & V4 DETAILS
CHORD PLATE DETAILS ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6

END OF TRUSS (COLUMN)

CAMBERING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD FOR END IN FIELD ASSEMBLY BY CONTRACT WTC 2210

NO.	DATE	REVISION	BY
2	6-27-68	AS NOTED	TMC
1	6-22-68	GENERAL	TMC

REFERENCE DRAWINGS

T-AB1-52	2-15-68
T-AB1-53	1-3-68
T-AB4-50 & 502	10-20-67
T-AB1-2	1-68
T-AB4-505	10-20-67

TRUSS SCHEDULE

TYP

A

59'-9" OVERALL

ALLEGHENY COUNTY TOWER A-B

FABRICATOR LACLEDE STEEL COMPANY

FABRICATOR'S DESIGN DRAWING NO. T-AB1-1 T-AB1-2 PLATE

ENGINEER FOR FABRICATION DATE 7/15/68 DRAWN BY
BY FOR FABRICATOR DATE FEB. 24, 1968

APPROVED FOR FABRICATION DATE CHECKED BY JR PAUL IN CHARGE OF PROD. DEV.
BY FOR FABRICATOR DATE FEB. 24, 1968

ENGINEER BY R.C. REBER FABRICATION CONT. NO. W-C 221 SHEET NO. ST208A

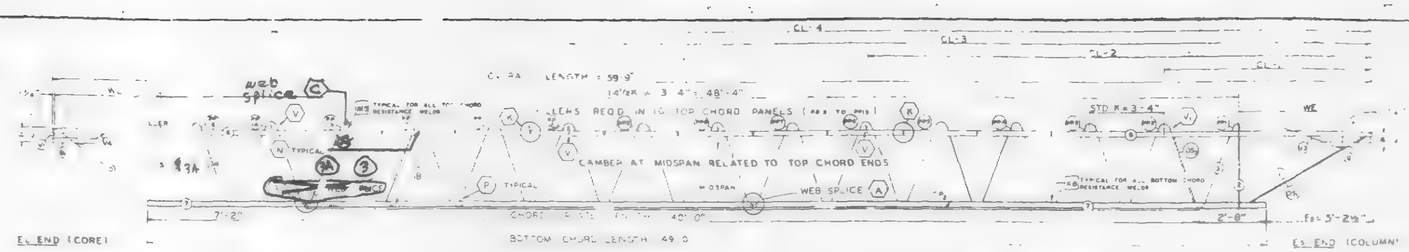
TRUSS DESIGNATION

MK	TYPE STEEL	CHORD SIZE	LENGTH
9	A242	2"x6"x.25	2'-0"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2"

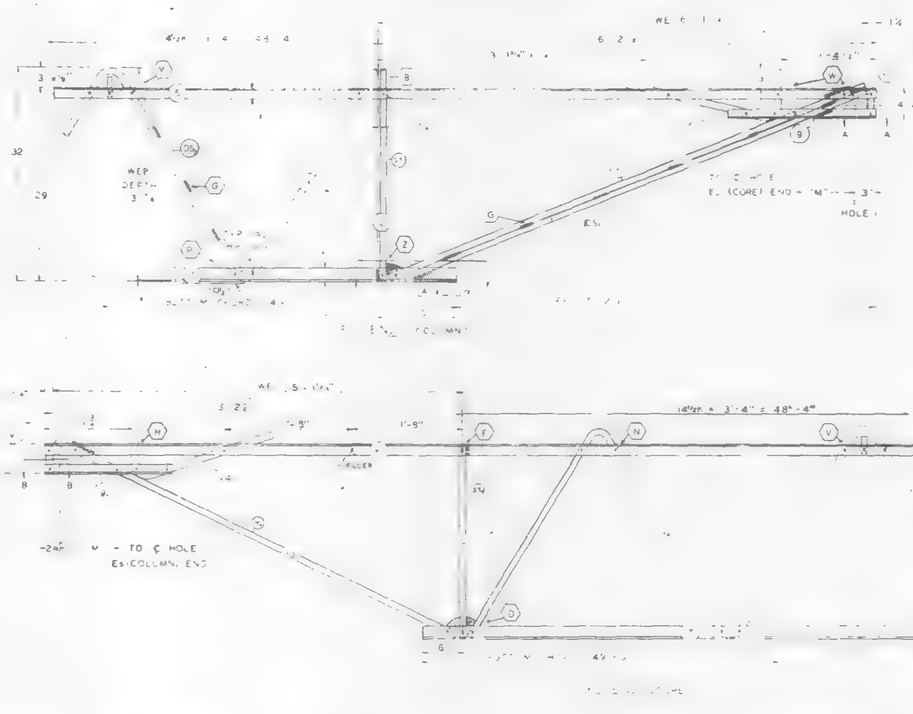
COLUMN END	ES END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE.	DIAGONAL "L" STRUT MK	DIAGONAL "L" STRUT TYPE STEEL	DIAGONAL "L" STRUT DIA	DIAGONAL "L" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK #2 TYPE STEEL	END STIFFENER MK #2 DIA	END STIFFENER MK #2 LENGTH	END STIFFENER MK #4 TYPE STEEL	END STIFFENER MK #4 DIA	END STIFFENER MK #4 LENGTH	WEB "WC" MK	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA	WEB "WC" LENGTH	WEB "WT" MK	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA	WEB "WT" LENGTH
	ES END	C32T8A-599	9	A242	2"x6"x.25	2'-0"	6"																								
		C32T8A-599	9	A242	2"x6"x.25	1'-7"	5'-1 1/4"	0	A242	.14	5'-6 1/2"	5	A242	.14	4'-2 3/8"	A242	.14	4"	—	—	—	—	—	—	—	—	—	—	—	—	—
															6'-3"			2'-7"			4'-8"										
CORE END	ES END																														



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	28"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 1/8"
WEB DEPTH	N 7'-8"	± 1/4"

TRUSS ELEVATION

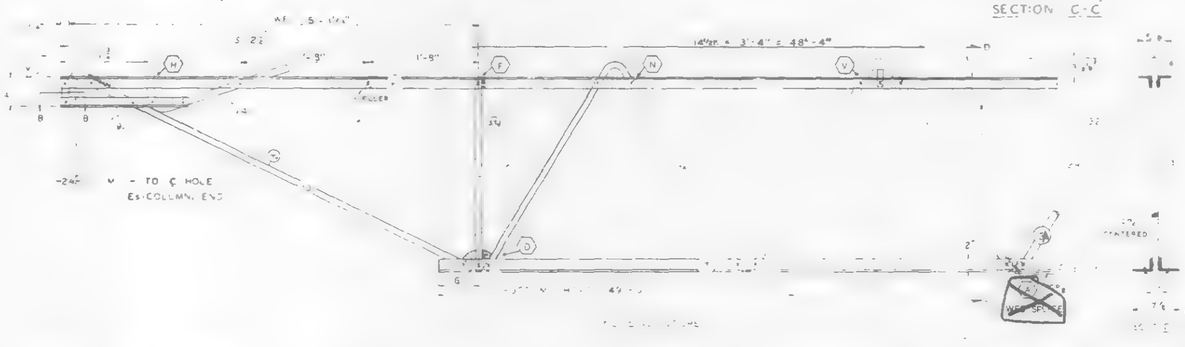


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280
SEE SHEET ST255 [illegible] & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COLUMN END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



SECTION B-B

NO	DATE	REVISION	BY
1	6.22.88	GENERAL	TWC

REF DRWGS
T-AB-5 dtd 5-68
T-AB-52 dtd 5-68
T-AB-53 dtd 5-68
T-AB4 & 5 & 507 dtd 10-20-87
T-AB1-2 dtd 3-68
T-AB4-505 dtd 10-20-87

LACLEDE ELECTRONICS

c/s/s w.e.B.

STEEL TRUSS DETAILS
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY: LACLEDE STEEL COMPANY
DESIGN DRAWING NO
T-AB1-5 T-AB1-2 PLATE
WORKS FOR FABRICATION DRAWN BY LH
FOR POWER DATE FEB 24, 1988
FABRICATION DATE CHECKED BY J.R. PAUL IN CHARGE OF
FEB 24, 1988 PROD DEV
FABRICATION CONT NO SHEET NO
221 ST208A

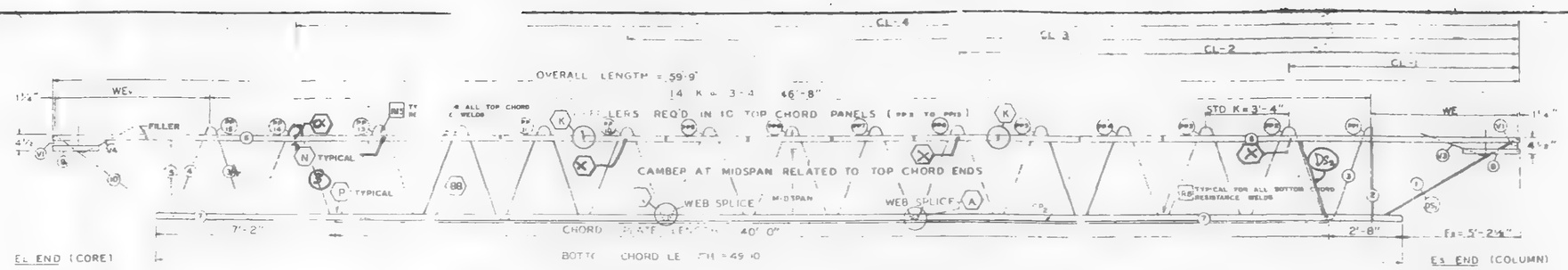
TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO	DIA	FILLER "FM" ℄ HOLE NO	DIA	CONNECTION FILLER NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8A-599	6	A242	2½"x2½"x.25	59'-9"	7	A36	3"x3"x.5	49'-10"	8	A36	1.09	12'-8"	11	1.09	59	3½"	24	3"	1.09	A36	½"x3"	40'-0"	15	A242	.75	2'-8½"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT W	TYPE STEEL	DIA	LENGTH
E3 END	C32T8A-599	9	A242	2½"x2½"x.25	2'-0"	6"x½"	1	A36	.09	6'-3"x2	2	A36	.09	2'-7⅝"	A36	1.09	4⅝"	A36	1.09	2'-9⅛"	105	A242	.92	6'-3"x2

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

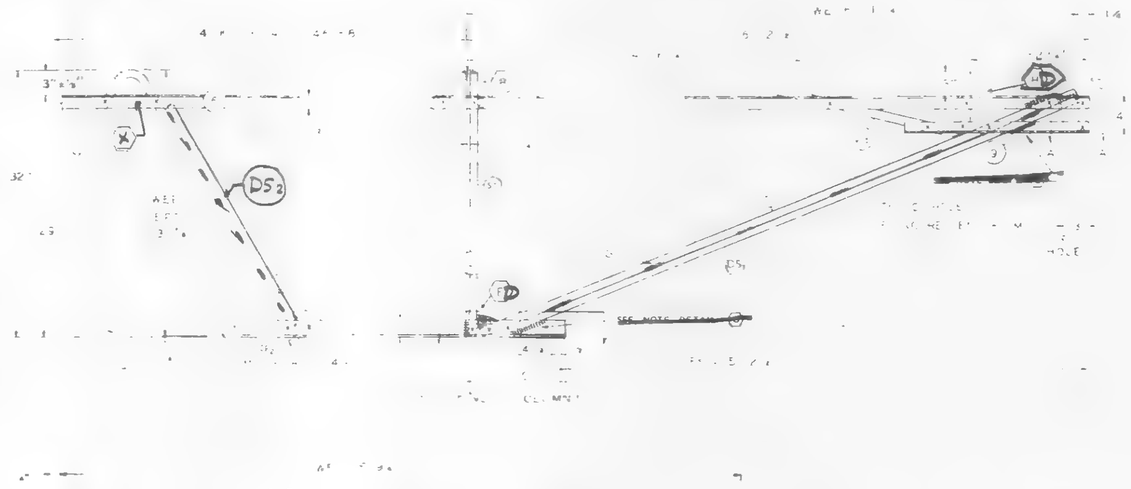
CL-1	CL-2	CL-3	CL-4	F3
9'-6⅛"	22'-10" ±	36'-2⅝"	49'-6⅛"	5'-2" ±

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	E1 END	C32T8A-599	9	A242	2½"x2½"x.25	1'-7"	5"x½"	10	A242	.4	5'-6"	5	A242	.4	2'-4⅝"	A242	1.14	4⅝"	–	–	–	A242	1.14	2'-2⅛"	–	–	–	–	–	–	–	–	–	–

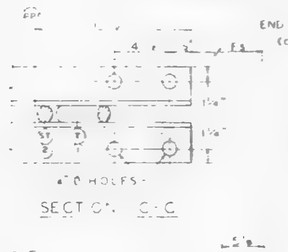


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 0' 8"
WEB DEPTH	31 7/8"	± 1/4"



SECTION A-A



SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.

ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.

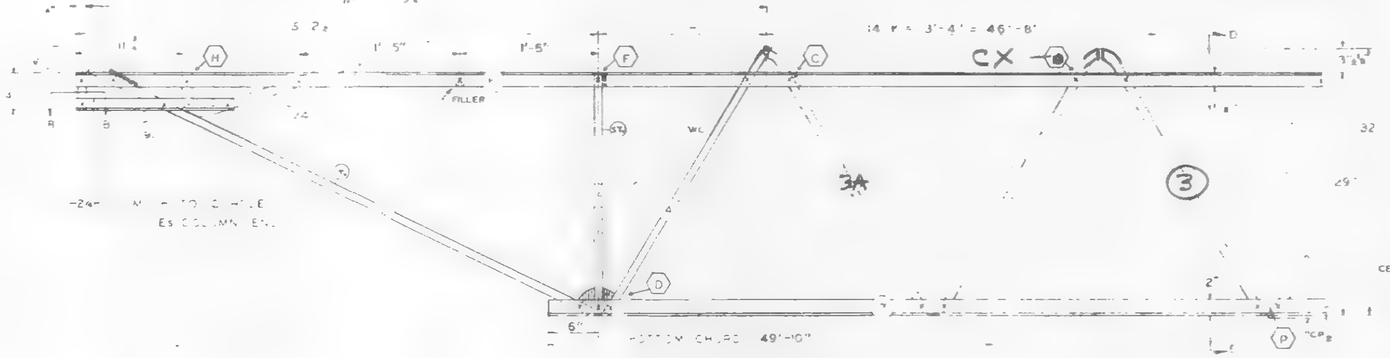
CHORD PLATE DETAILS SHOWN ON SHEET ST280.

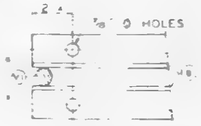
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COLUMN END) FIELD ASSEMBLY BY CONTRACT WTC 223.00.

6/13/68 WTB





SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TOP CHORD TYPE STEEL	TOP CHORD SIZE	TOP CHORD LENGTH	BOTTOM CHORD TWO ANGLES MK	BOTTOM CHORD TYPE STEEL	BOTTOM CHORD SIZE	BOTTOM CHORD LENGTH	MAIN WEB "W" MK	MAIN WEB TYPE STEEL	MAIN WEB DIA	MAIN WEB LENGTH	MAIN WEB NO OF @	FILLER PLATE MK	FILLER PLATE NO	FILLER PLATE DIA	TOP CHORD DATA	CHORD DATA
C32T8A 599	6	A242	2"x1½"x¼"	59-9	7	A36	3"x2"x⅜"	49'-10"	3	A36	10y	87-2⅛"	14 @ 3'-4" = 46'-8"	11	109	59 3½"		

COLUMN END	ES END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE MK	DIAGONAL "T" STRUT TYPE STEEL	DIAGONAL "T" STRUT DIA	DIAGONAL "T" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V3 TYPE STEEL	END STIFFENER MK V3 DIA	END STIFFENER MK V3 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
		C32T8A-599	9	A242	2"x1½"x¼"	25 1'-10"	6	A36	.109	6'-3⅛"	2	A36	.109	2'-7⅞"	A36	.09	4⅜"	A36	.109	2 9⅛"	10y	A242	.75	5'-3"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE MK	DIAGONAL "T" STRUT TYPE STEEL	DIAGONAL "T" STRUT DIA	DIAGONAL "T" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END "EB" MK V1 TYPE STEEL	END "EB" MK V1 DIA	END "EB" MK V1 LENGTH	END "EB" MK V2 TYPE STEEL	END "EB" MK V2 DIA	END "EB" MK V2 LENGTH	WEB "WC" MK	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA	WEB "WC" LENGTH	WEB "WT" MK	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA	WEB "WT" LENGTH
		C32T8A-598	9	A242	2"x1½"x¼"	25 1'-10"	1	5-9⅛"-10	A242	114	5-6⅛"	5	A242	4	2'-4⅜"	A242	114	4				4	A242	1	114	3'-9⅛"					

WEB

MK	PCS	DIA
3A	2	1.13

REF DRWGS		
	7-AB1-5	4-15-68 (2-15-68)
	7-AB-52	2-15-68
	7-AB1-53	1-3-68
	7-AB4-50 & 50.2	10-20-67
	7-AB3-2	1-3-68
	7-AB4-505	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

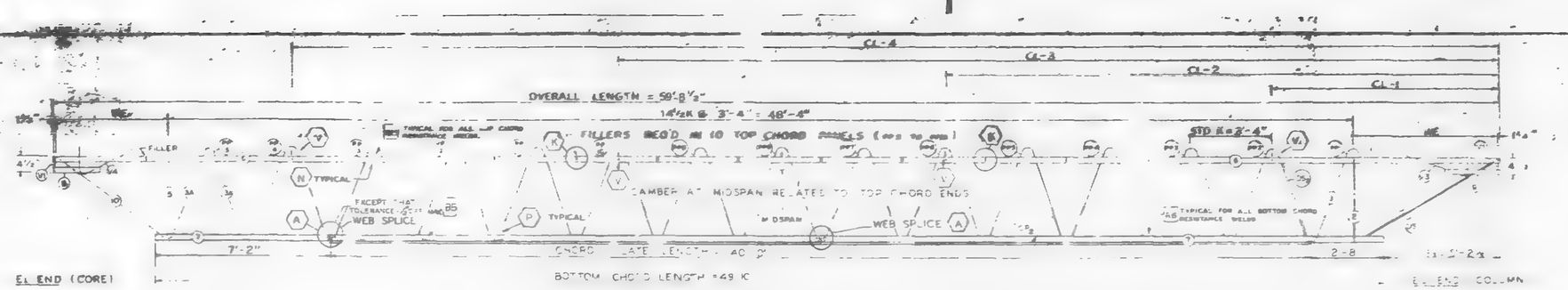
FLOOR TRUSS C32T8A 59'-9" OVERALL

WORLD TRADE CENTER TOWER A-B

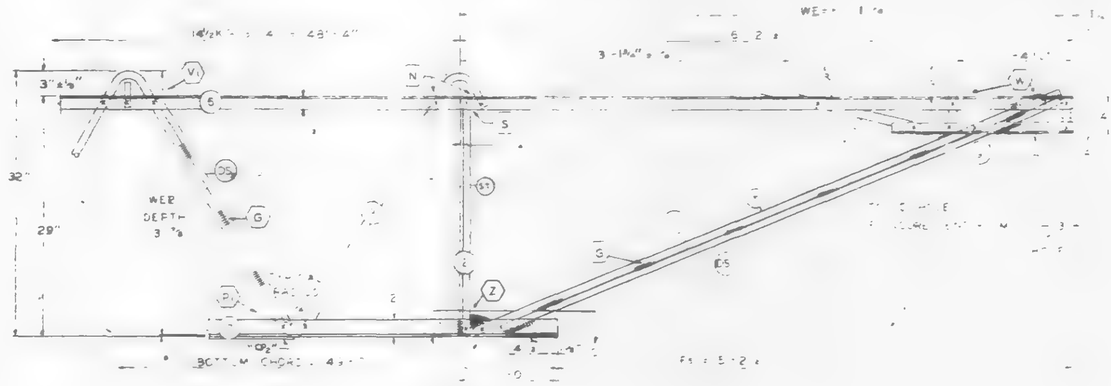
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY FOR PONYA DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A.C. WEBER

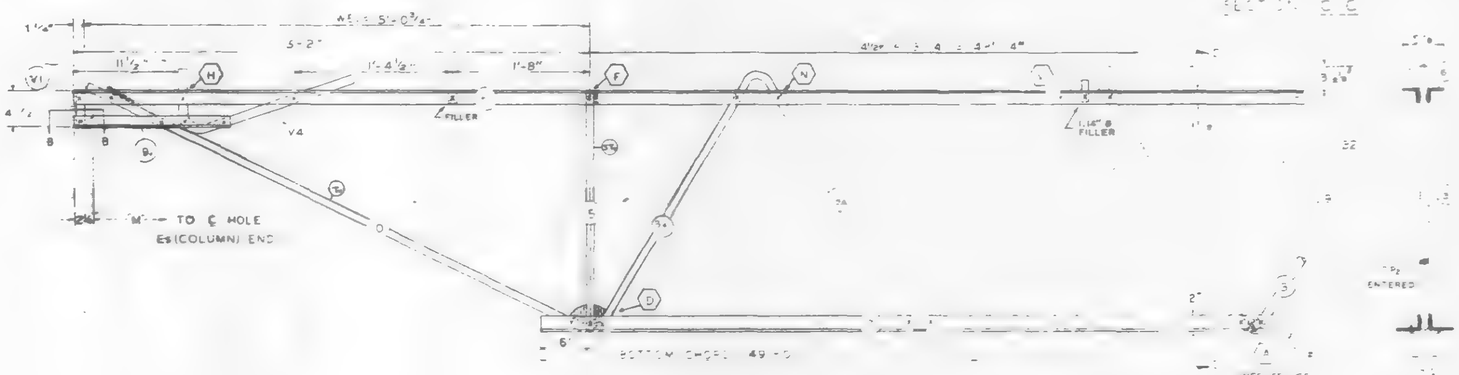
DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
DRAWN BY DATE FEB. 24, 1968
CHECKED BY J.R. PAUL IN CHARGE OF WORK DATE FEB. 24, 1968
FABRICATION CONTRACT NO WTC 221
ST208A



FABRICATION	
	DESIGN
CAMBER AT MIDSPAN	2"
DESIGN DEPTH	29"
PANEL "K"	3'-4"
OVERALL LENGTH	59'-8 1/2"
WEB DEPTH	3'-7/8"



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST293
SEE SHEET ST294 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6



NO	DATE	REVISION	BY

REF DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-30	8-1-68
7-AB3-2	1-3-68
7-AB4-585	10-29-67

ARLEDGE ELECTRIC CO.
FED NO 1009

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TOP CHORD TWO ANGLES TYPE STEEL	TOP CHORD TWO ANGLES SIZE	TOP CHORD TWO ANGLES LENGTH MF	BOTTOM CHORD TWO ANGLES MK	BOTTOM CHORD TWO ANGLES TYPE STEEL	BOTTOM CHORD TWO ANGLES SIZE	BOTTOM CHORD TWO ANGLES LENGTH	WEB "W" MK	WEB "W" TYPE STEEL	WEB "W" DIA	WEB "W" LENGTH	WEB "W" NO OF R	FILLER AT ℄ HOLE NO	FILLER AT ℄ HOLE DIA	CONNECTION FILLER NO	CONNECTION FILLER DIA	CHORD PLATE LENGTH MF	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	DOUBLE STRUT MF	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
C32T8B-598 S	6	A242	2 x			A36	3 x 2 x	49'-10"			.09			1	.06	3	1.09	3"	CH	A36	3 x 3	40	2	CS	A242	.75	2'-6"

COLUMN END

E. END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT MK	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V2 TYPE STEEL	END STIFFENER MK V2 DIA	END STIFFENER MK V2 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
	C32T8B-598 S	9	A242	2"x1 1/2"x.25	2'-3"	6'-1"		A36	.109	6'-3"	2	A36	.109	2'-4"	A36	.109	4"	A36		2'-9"	DS	A242	.92	6'-3"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

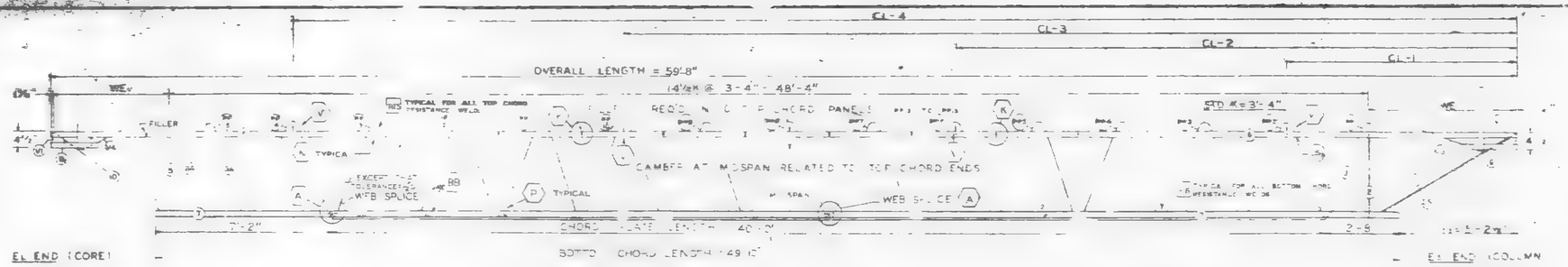
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10"	36'-2 1/8"	49'-6 1/4"	5'-2"

CORE END

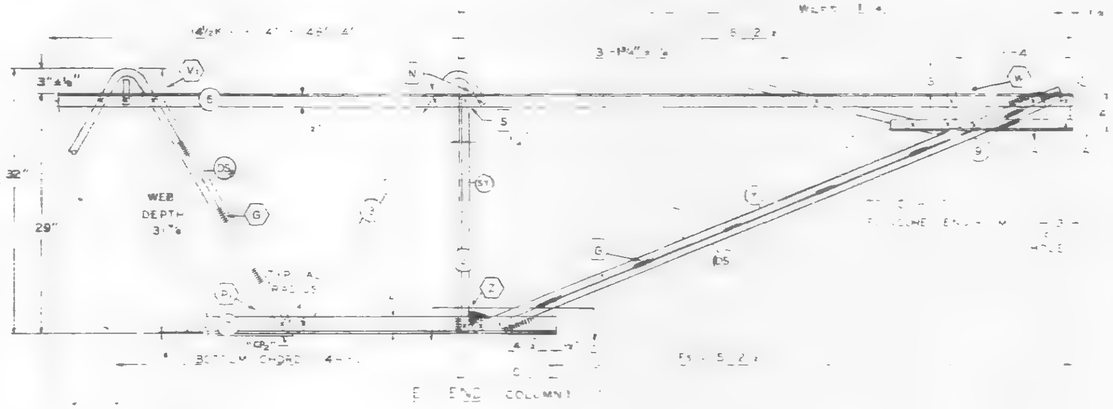
E. END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT MK	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V2 TYPE STEEL	END STIFFENER MK V2 DIA	END STIFFENER MK V2 LENGTH	END STIFFENER MK V4 TYPE STEEL	END STIFFENER MK V4 DIA	END STIFFENER MK V4 LENGTH	WEB "WC" MK	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA	WEB "WC" LENGTH	WEB "WT" MK	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA	WEB "WT" LENGTH
	C32T8B-596 S	8	A242	2"x1 1/2"x.25	1'-6"	5'-0 3/4"	10	A242	1.14	5-6 1/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 1/8"	—	—	—	A242	1.14	2'-2"									

SECTION B-B

STEEL TRUSS DETAILS FOR	
W.T.C. TWIN TOWER CENTER N.Y.C.	
FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T8B	59'-8 1/2" OVERALL
WORLD TRADE CENTER, TOWER A-B	
FABRICATION BY LAY FLE STEEL COMPANY	
FAB DATES AT WEST SON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-5 7-AB1-52
APPROVED FOR FABRICATION BY [illegible] FOR P.A.N.Y.	DATE 2/28/69
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE
	DRAWN BY LJ DATE FEB 10 1969
	CHECKED BY TM CHUA DATE FEB. 11, 1969
	FABRICATION CONT NO. WTC 221
	SHEET NO. ST20BB

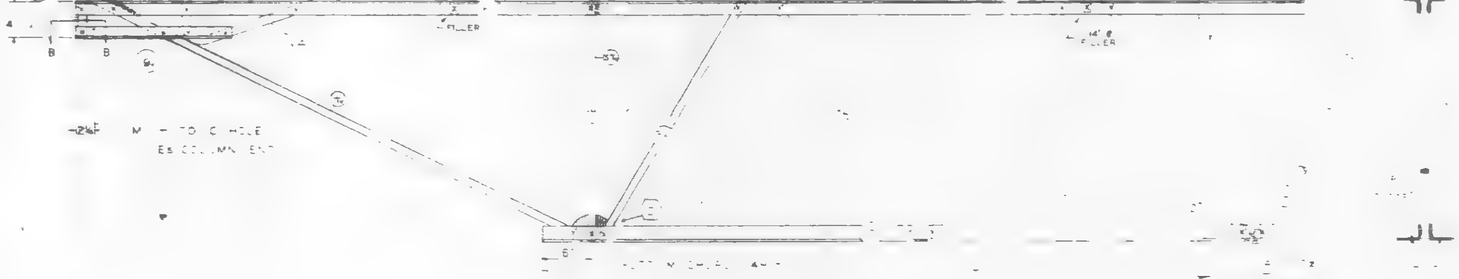


FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	2"	
DESIGN DEPTH		8 1/4"
PANEL "P"	3'-4	8 1/4
OVERALL LENGTH	59'-8"	
WEB DEPTH	3 7/8"	1/4"



ALL PANEL POINTS RESISTANCE WELDED x
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST280, ST281, ST282, AND ST287
SEE SHEET ST285 FOR W1, W3, & W4 DETAILS.
CHORD PLATE WELD SHOWN ON SHEET ST280.
LETTERS IN HEXAGONS INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

CAMBER IN DEFLECTION CHORD PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 2130



NO.	DATE	REVISION	BY

REF DRWGS

T-AB-1	10-15-88
T-AB-1.2	2-15-68
T-AB-1.3	7-22-88
T-AB4.3C	8-1-88
T-AB-2	1-3-88
T-AB4.5D.5	10-20-87

TRUSS DESIGNATION	TOP CHORD TYPE ANGLES				BOTTOM CHORD TYPE ANGLES				WEB MEMBERS															
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF	NO OF	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8C-598	6	A242	2"x1 1/2"x 5/16"	59-5"	7	A36	3"x2 1/2"x 5/16"	49-10"	8	A36	3/4"	2'-7 3/4"	9	A36	3/4"	2'-6 1/4"	1	1	10	A36	3/4"	5'-2 3/4"	11	A242	3/4"	5'-2 3/4"

COLUMN END	ES END	TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT			END STIFFENER						DOUBLE "DS" STRUT				CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH					
		C32T8C-598	9	A242	2"x1 1/2"x 5/16"	2'-3"	6"	A36	3/8"	6'-3 7/8"	2	A36	3/8"	2'-4 7/8"	A36	3/8"	4 7/8"	A36			DS	A242	3/8"	6'-3 6"					

CORE END	ES END	TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT			END STIFFENER									WEB "WC"				WEB "WT"			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK VI			MK V2			MK V4			MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
																TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH									
		C32T8C-598	8	A242	2"x1 1/2"x 5/16"	1'-6"	5	A242	4	5'-5 5/8"	5	A242	4	2'-4 7/8"	A242	4	4 1/8"	—	—	—	A 242	4	2'-2 1/2"										

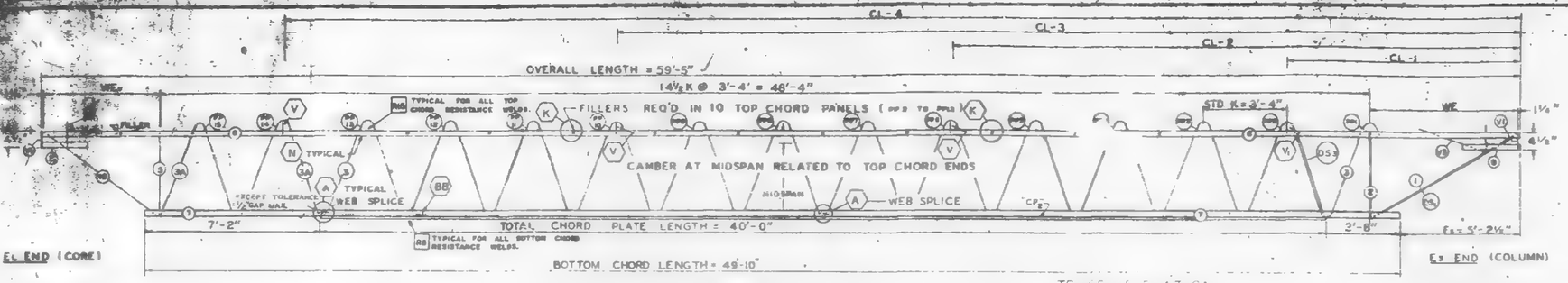
STEEL TRUSS DETAILS

FILLER TRUSS (C32T8C) 59'-8" OVERALL

WORLD TRADE CENTER TOWER A-B

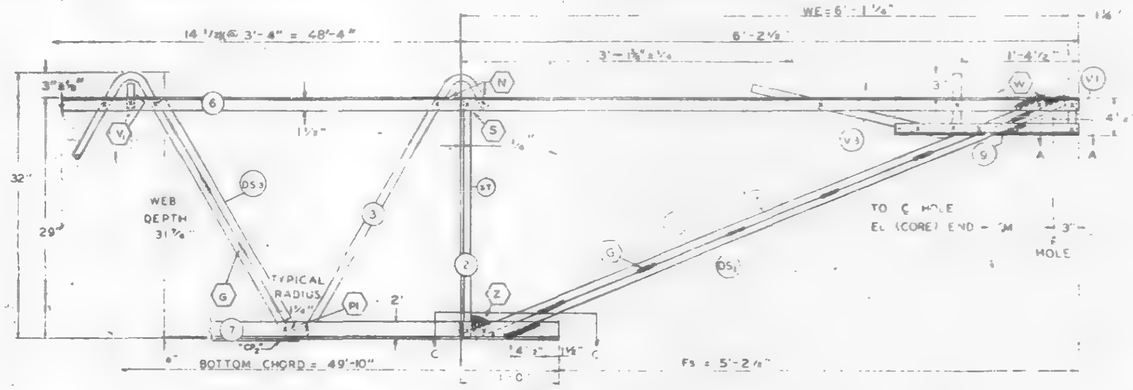
FABRICATION BY: LONGVIEW STEEL COMPANY

REVISION NOTES		DESIGN DRAWING NO	
		T-AB1-5 T-AB3-2	PLATE
APPROVED FOR FABRICATION BY:	DATE 2/28/89	DRAWN BY L.L	
		DATE FEB 10 1989	
APPROVED FOR FABRICATION BY:	DATE	CHECKED BY T.M.CHUBA DATE FEB 17 1989	IN CHARGE OF PROJ. ENG.
DETAILED BY:		FABRICATION CONTROL WTC 221	SHEET NO. ST208 C

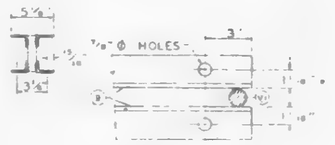


TRUSS ELEVATION

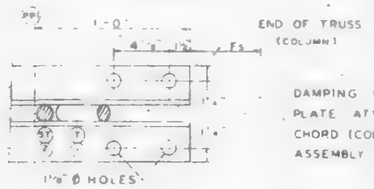
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-5"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



E5 END (COLUMN)



SECTION A-A

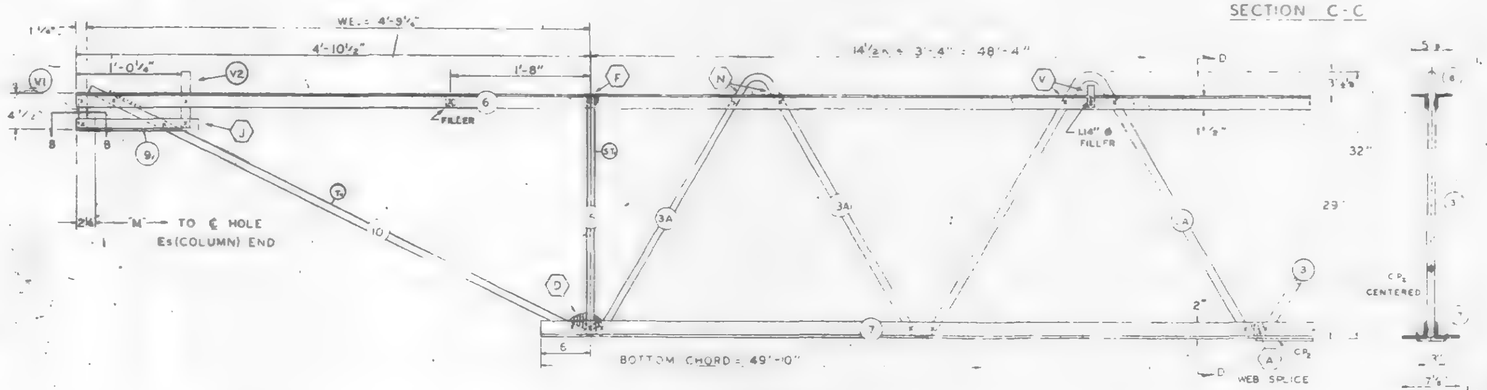


SECTION C-C

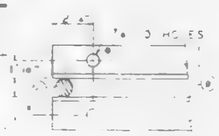
ALL PANEL POINTS RESISTANCE WELDED (×
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



E1 END (CORE)



SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		℄ "M" ℄ HOL	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8D	6	A242	2"x1½"x3/8"	59'-5"	7	A36	3"x2"x.33	49'-10"	3 3A	A36 A242	1.09 1.14	78'-3¾" 12'-5⅛"	12½ @ 3'-4" = 41'-8" 2 @ 3'-4" = 6'-8"	11	1.09	58'-11¾"	3	1.09 1.14	⅞" 3"	CP2	A36	¼"x3"	40'-0"	DS1	A242	.75	2'-6¾"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1				END STIFFENER MK V3				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	DIA	LENGTH
C32T8E	595	9	A242	2"x1½"x.25	2'-3"	6"x1"x⅜"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅜"	A36	1.09	2'-9⅛"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TF 55 FAB. LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"	

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1				END STIFFENER MK V2				WEB "WC"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8D	595	9	A242	2"x1½"x.25	1'-2½"	4'-9¼"10	A242	1.14	5'-3"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅛"		A242	1.14	7⅛"											

NO.	DATE	REVISION	BY
		7-AB1-5 10-19-88	
		7-AB1-52 2-15-88	
		7-AB1-53 7-22-88	
		7-AB4 8-1-88	
		7-AB1-2 1-[illegible]-88	
		7-AB4-505 10-20-87	

REF DRWGS

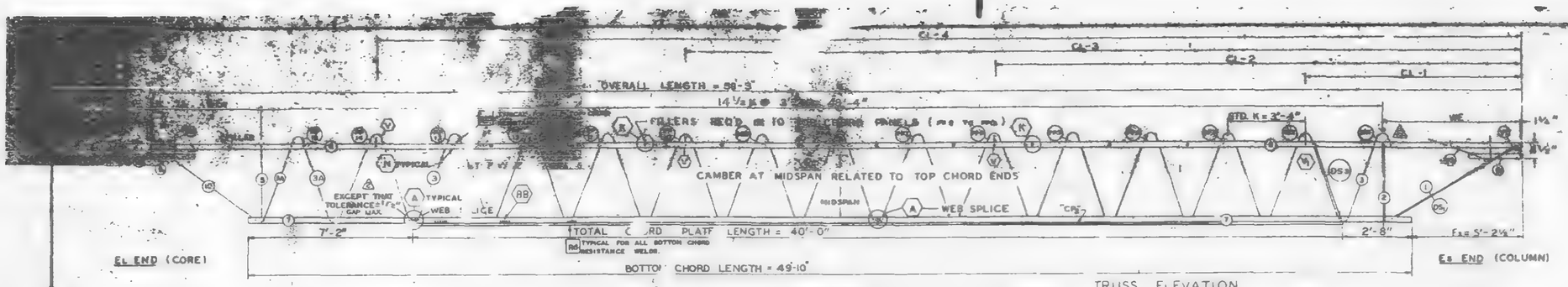
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8D 59'-5" OVERALL
WORLD TRADE CENTER TOWER - A-B

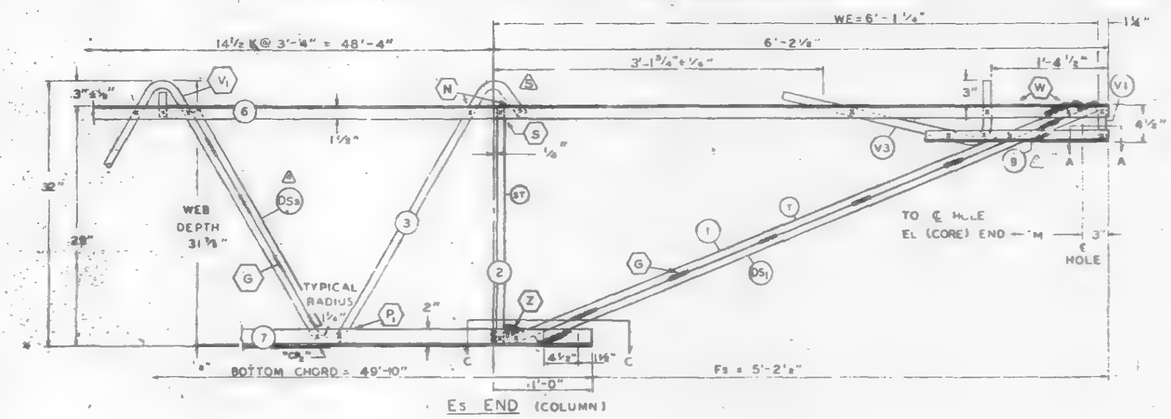
FABRICATION BY LACLEDE STEEL COMPANY

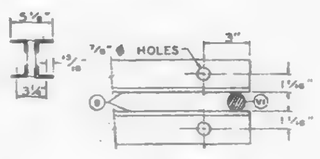
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-5, 7-AB1-2	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR POWER	DATE 4/24/69	DRAWN BY [illegible] DATE APRIL 15, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATION	DATE	CHECKED BY T.M. CHURA DATE APRIL 15, 1969	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO.		FABRICATION CONT. NO. DATE 221	SHEET NO. ST280 REV.



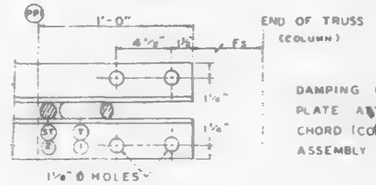
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	BASIS	TOLERANCE
CAMBER AT MIDSPAN	2"	± 1/2"
CHORD DEPTH	32"	± 1/16"
PANEL "D"	32"-0"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	29"	± 1/4"





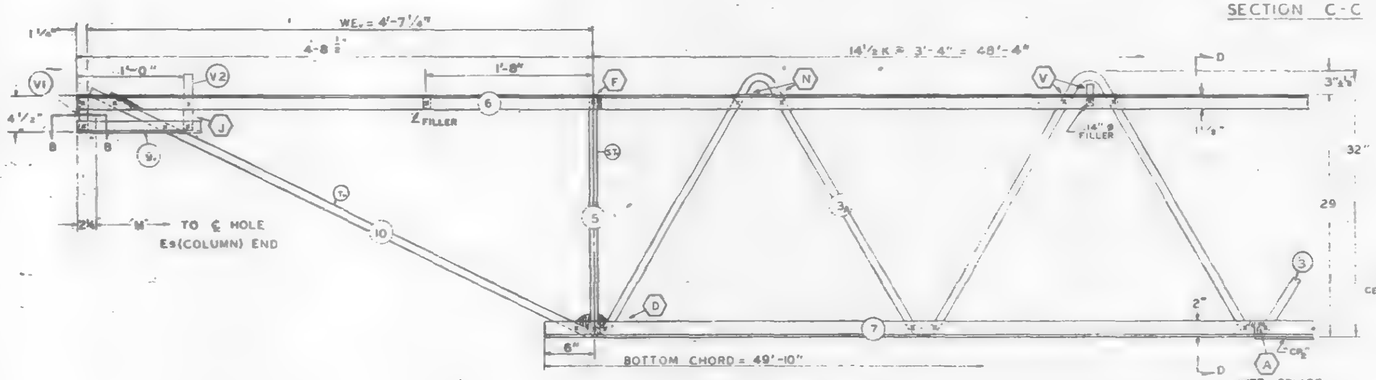
SECTION A-A

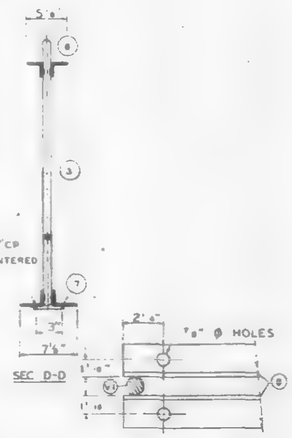


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (⊠).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





SECTION B-B

NO	DATE	REVISION	BY
5	12-15-68	AS NOTED	D.C.C.
4	7-22-68	MK (9) LENGTH & DS2 LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

⚠ REF DRWGS

7-ABI-5	10-15-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-305	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	C "M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1⅛"x.31	59'-3"	7	A36	3"x2"x.33	49'-10"	3 3A	A36 A242	1.09 1.14	16'-3" A 12'-3½"	12½ @ 3'-4" = 41'-8" & 3 @ 3'-4" = 9'-0"	11	1.09	58 @ 8"	3 1	1.09 1.14	3"	CP	A36	½x3	40'-0"	DS2	A242	75	2'-6¾"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	9	A242	2"x1⅛"x.25	2'-3"	6'-1⅛"	1	A36	1.09	6'-3'⅛"	2	A36	1.09	2'-4⅜"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3'⅛"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE'	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						WEB "WC"					WEB "WT"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8E-593	8	A242	2"x1⅛"x.25	1'-2"	4'-7⅛"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4⅛"	A242	1.14	4"	A242	1.14	7"	—	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2⅝"	49'-6⅛"	5'-2⅛"

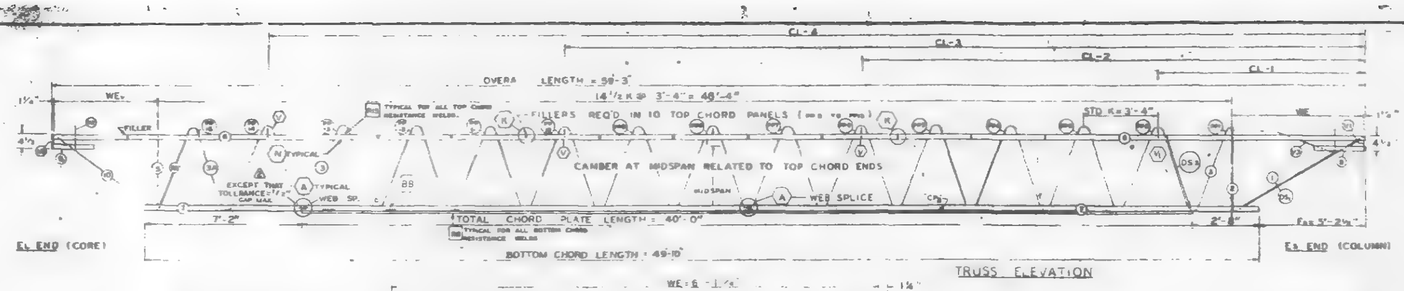
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL

WORLD TRADE CENTER TOWER A-B

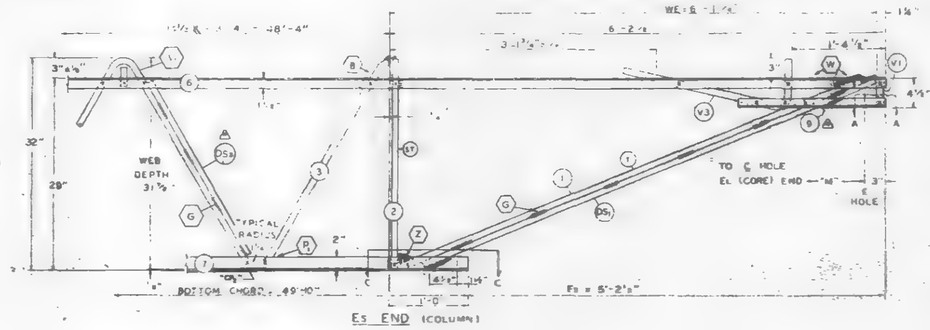
FABRICATION BY LACLEDE STEEL COMPANY

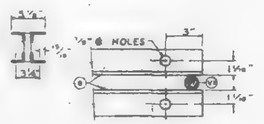
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-ABI-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 12/19/68
DRAWN BY LH DATE FEB. 26, 1969
APPROVED FOR FABRICATION FOR FABRICATOR DATE
CHECKED BY JR PAUL DATE FEB. 26, 1969 IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. WELDED BY A.C. WEBER
FABRICATION CONT NO W.T.C. — C32
SHEET NO



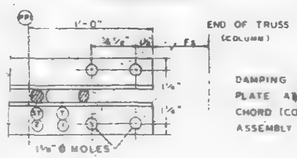
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29	± 1"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59 3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





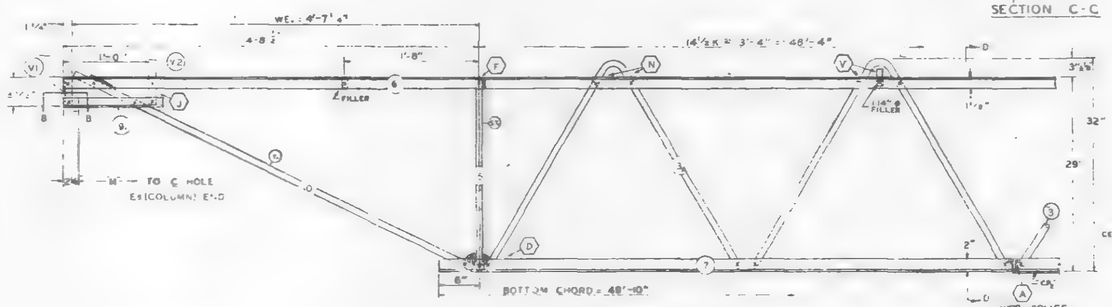
SECTION A-A

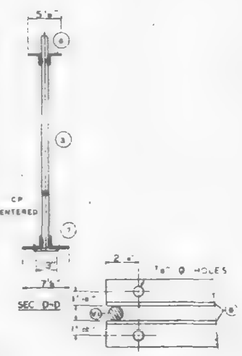


SECTION C-C

ALL - PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





SECTION B-B

NO	DATE	REVISION	BY
4	7-22-88	WK ⑨ LENGTH & DS1 LENGTH	TMC
3	7-8-88	TOLERANCE, WEB SPLICE	TMC
2	6-27-88	AS NOTED	TMC
1	6-22-88	GENERAL	TMC

REF DRWGS

7-AB4-5	6-15-88
7-AB4-52	2-15-88
7-AB4-53	4-3-88
7-AB4-50 & 50-2	10-20-87
7-AB3-2	1-3-84
7-AB4-505	10-20-87

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

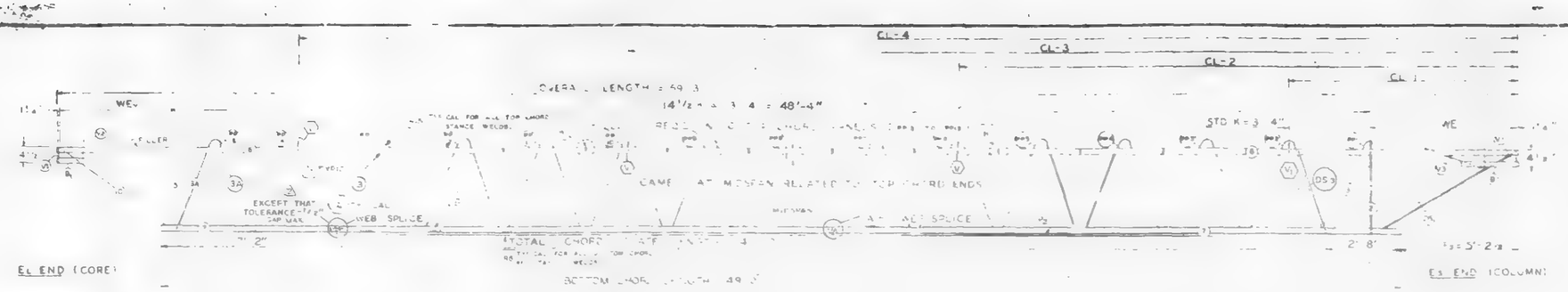
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"@1½"x 3/8"	59'-3"	7	A36	3"@2"x 33	49'-10"	2	A36	1.09	77'-10½"	16 @ 3'-4" = 48'-4"	11	1.09	56	7/8	2"	CP	A36	1/2"	40'-0"	DS	A242	75	2'-6¾"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER				DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK VI TYPE STEEL	MK VI DIA	MK VI LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	9	A242	2"@1½"x 25/64	2'-3"	6'-11¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-7⅝"	A36	1.09	4⅝"	A36	1.09	8'-8½"	DS	A242	.92	6'-3¼"

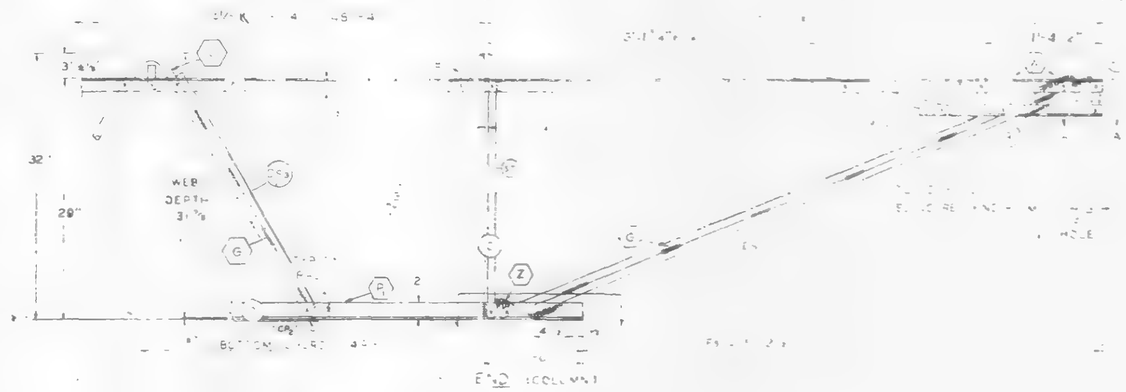
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
8'-8½"	22'-10½"	38'-2½"	48'-8½"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "VT" STRUT				END STIFFENER				WEB				WEB			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK VI TYPE STEEL	MK VI DIA	MK VI LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	8	A242	2"@1½"x 25/64	1'-2"	4'-7"@10	10	A242	1.14	5'-1"	5	A242	1.41	2'-4⅝"	A242	1.14	4"	A242	1.41	4⅝"	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY			
FLOOR TRUSS C32T8E	59'-3" OVERALL		
WORLD TRADE CENTER TOWER A-B			
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB3-5	7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR POWER	DATE 2/4/88	DRAWN BY LA	DATE FEB 28, 1988
APPROVED FOR FABRICATION FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL	DATE FEB 29, 1988
LACLEDE STEEL CO.		FABRICATION CONT NO WTC - 221	IN CHARGE OF PROD DEV
			SHEET NO



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH		± 1/4"
PANEL AT	3'-4"	± 1/8"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31'-7/8"	± 1/4"



*ALL PANEL POINTS RESISTANCE WELDED, X ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST[illegible].
SEE SHEET ST295 FOR W1, W2, & W3 DETAILS OF PL. PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

CAMBER AT FIELD CONNECTION PLATE ATTACHED TO BOTTOM CHORD CORE END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

NO	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-ABI-5	4-15-68
7-ABI-52	2-15-68
7-ABI-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB1-2	[illegible]
7-AB4-50.5	10-20-67

REF NO [illegible]

SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD WT SHAPES				WEB MEMBERS								FILLERS				END WEB PLATE		DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	MK	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x5"x⅜	59'-3"	1	A36	3"x2"x33	49'-10"	3	A36	109	7'-6 23/32"	4	4	109	4	109	4'-9 5/8"	11	CR	40'-0"	60'-5	A242	92	8'-1 1/2"

COLUMN END	E3 END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE.	DIAGONAL "T" STRUT MK	DIAGONAL "T" STRUT TYPE STEEL	DIAGONAL "T" STRUT DIA	DIAGONAL "T" STRUT LENGTH	VERTICAL "ST" STRUT MK	VERTICAL "ST" STRUT TYPE STEEL	VERTICAL "ST" STRUT DIA	VERTICAL "ST" STRUT LENGTH	END STIFFENER MK V1 TYPE STUB	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V2 TYPE STEEL	END STIFFENER MK V2 DIA	END STIFFENER MK V2 LENGTH	END STIFFENER MK V4 TYPE STEEL	END STIFFENER MK V4 DIA	END STIFFENER MK V4 LENGTH	WEB "WC" MK	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA	WEB "WC" LENGTH	WEB "WT" MK	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA	WEB "WT" LENGTH
CORE END	E1 END	C32T8E-593	9	A242	2"x5"x⅜	1'-2"	4'-7 1/4"	10	A242	114	5'-1"	5	A242	1	2'-4 3/8"	A242	4	4"	A242	4	7"				—	—	—	—	—	—	—	—	—	—

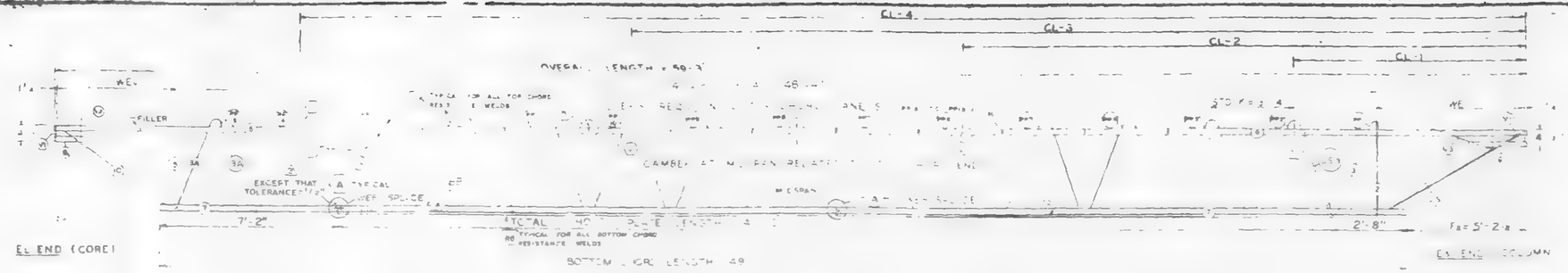
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS	CL-1	CL-2	CL-3	CL-4	E3
	9'-8"	22'-10"	36'-2"	48'-6"	15-2

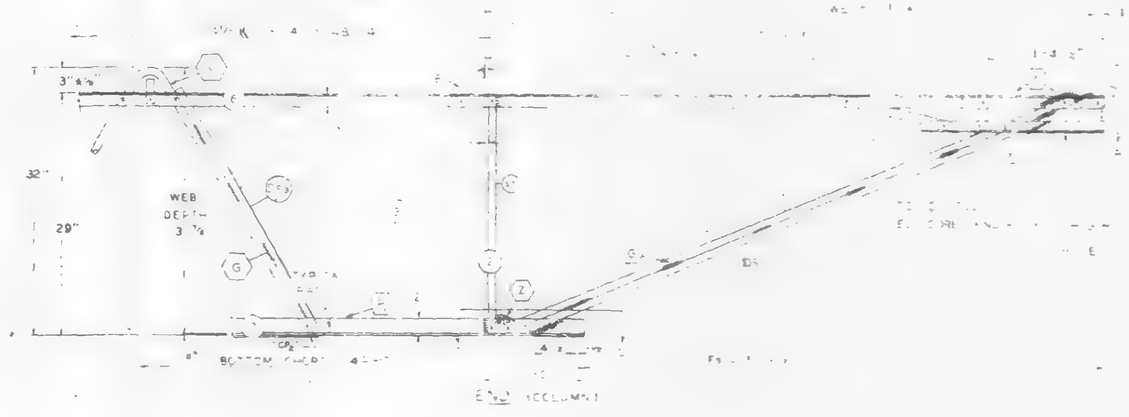
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATOR: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-ABI-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY JW FOR POWER DATE 7/12/68
DRAWN BY [illegible] DATE FEB 24 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB. 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC - 221
SHEET NO. ST280



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 1/8"
DESIGN DEPTH	29"	± 1/4"
PANEL PT.	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 1/4"
WEB DEPTH	31'-8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST260
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

CAMBER AT MIDSPAN CONNECTION PLATE ATTACHED TO BOTTOM CHORD AT END PANEL ASSEMBLED BY CONTRACT WTC 223.00.

NO	DATE	REVISION	BY
2	8-27-68	AS NOTED	TMC
1	8-22-68	GENERAL	TMC

REF DWGS

T-AB1-5	4-15-68
T-AB1-52	2-5-68
T-AB1-53	3-5-68
T-AB4-50 & 50.2	10-20-67
T-AB3-2	3-5-68
T-AB4-50.5	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB						END FILLERS							
	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF PCS	WT	MK	TYPE STEEL	DIA	LENGTH	NO OF PCS	WT		
C32T8E-593	6	A242	2"x1 1/2"x.25	49'-10"	35	A242	2"x1 1/2"x.25	49'-10"	16	A242	1 1/4	3'-2"	108	4,000	20	A242	1 1/4	8"	2	20		

COLUMN END	ES END	TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER												CHORD			
			MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	9	A242	2"x1 1/2"x.25	2'-0"	6	6	A36	1.09	6'-3 1/16"	2	A36	1.09	2'-7 5/8"	A36	1.09	4'-0"	A 36	1.09	2'-9 1/2"	10	A242	1.92	6'-3 1/8"							

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

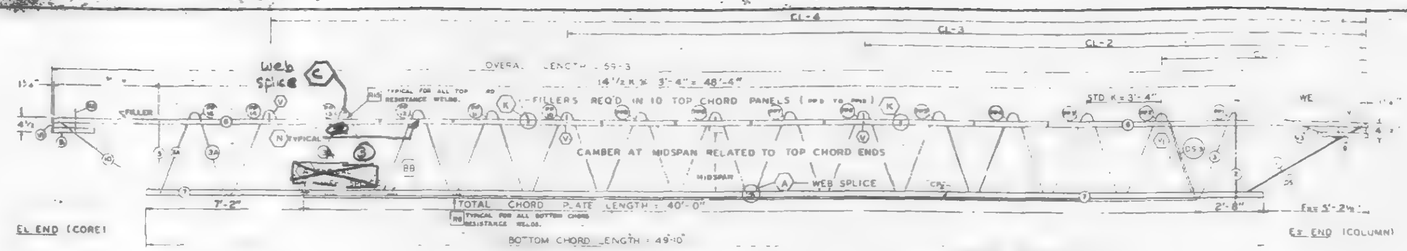
CL 1	CL-2	CL-3	CL-4	Fs
0'-0"	22'-10 1/2"	36'-2 1/2"	49'-0"	5'-2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER												WEB "WC"				WEB "WT"			
			MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8E-593	8	A242	2"x1 1/2"x.25	1'-2"	4-7 1/4"	10	A242	1 1/4	5'-1"	5	A242	1	4,2'-4 5/8"	A242	1 1/4	4"	A242	1 1/4	7"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

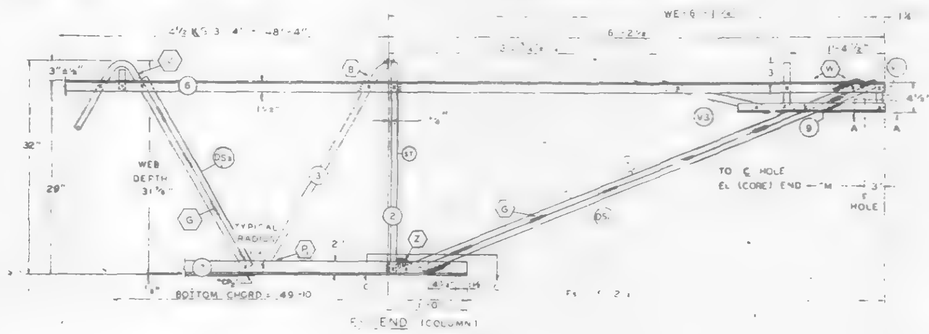
STEEL TRUSS DETAILS
WORLD TRADE CENTER - PHASE II
FOR
THE PORT OF NEW YORK AUTHORITY

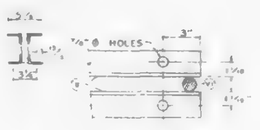
FOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER - TOWERS - A-B

FABRICATED BY	LACLEDE STEEL COMPANY		
FABRICATED AT	MADISON, ILLINOIS	DESIGN DRAWING NO	T-AB1-5 T-AB3-2 PLATE
APPROVED FOR FABRICATION BY JW FOR POWER	DATE 7/15/68	DRAWN BY LS DATE FEB 24 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.P. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD DEV.
WELDED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 223.00	SHEET NO. ST 280



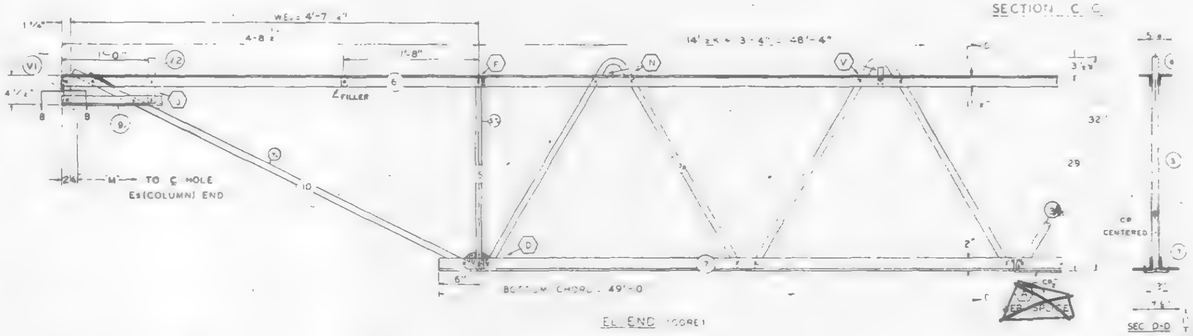
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL LENGTH	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHAPED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



NO	DATE	REVISION	BY
6	6-22-88	GENERAL	TWC

REF DRWGS

T-AB1-5	4-15-88
T-AB1-52	2-5-88
T-AB1-53	1-3-88
T-AB4-50 & 50.2	10-20-87
T-AB3-2	3-89
T-AB4-50.5	10-20-87

PAINT
LACLEDE ELECTROCOAT
REF NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1 1/2"x 3/8"	59-3	7	A36	3"x2"x .33	49'-10"	1	A36 A242	1.09	12'-2 3/4" 8'-3 1/4" 6'-10"	11	1.09	58 9 1/2	1 1.14 3"	1	1.09	3"	CP	A36	63	40'-0"	DSM	A242	75	2'-8 1/2"

COLUMN END	EX END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	9	A242	2"x1 1/2"x 25	2'-0"	6'-1"	A36	1.09	6'-3 1/2"	2	A36	1.09	2'-7 3/8"	A38	1.09	4 3/8"	A38	1.09	2'-8 1/2"	DS	A242	92	6'-3 1/2"

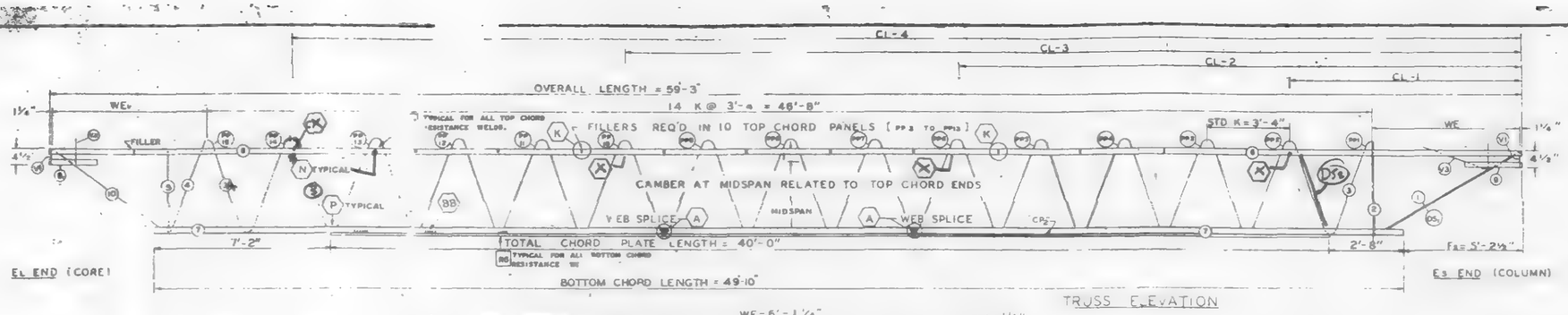
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK V4 MK	TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8E-593	8	A242	2"x1 1/2"x 25	1'-2"	4'-7 3/4"	10	A242	1.14	3'-1"	5	A242	1.14	2'-4 3/8"	A242	1.4	4"	A242	1.4	7'-8"	—	—	—	—	—	5	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF N.Y.A. NEW YORK AUTHORITY

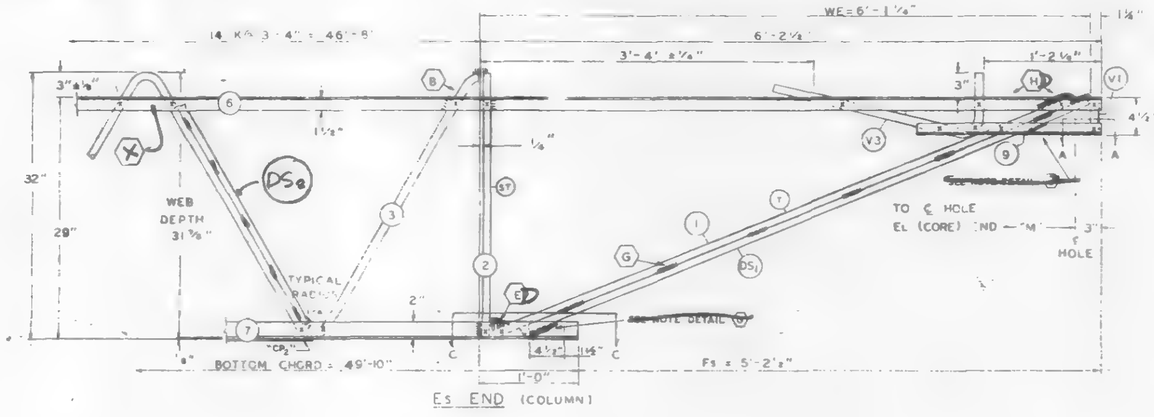
FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

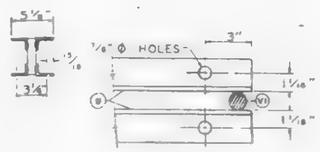
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO T-AB1-5 T-AB1-2 PLATE
APPROVED FOR FABRICATION BY FOR POWER
DATE DRAWN BY FEB 24 1988
APPROVED FOR FABRICATION BY FOR FABRICATION
DATE CHECKED BY J.R. PAUL DATE FEB. 24, 1988
IN CHARGE OF PROD DEV
DETAILED BY A.C. WEBER
FABRICATION CONT NO WTC 223.00
SHEET NO ST2085



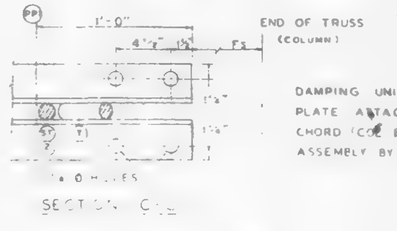
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





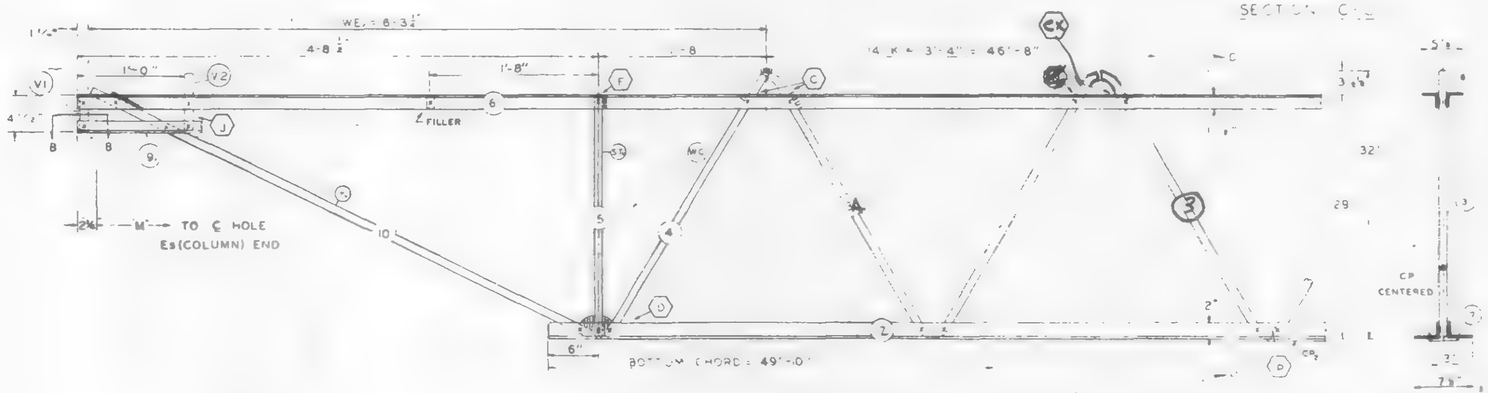
SECTION A-A

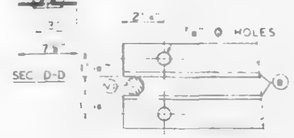


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (⊠) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CORE END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





SEC D-D

SECTION B-B

6/13/68 WAB

4-15-68

REF DRWGS

7-AB1-5	
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" ℄ HOLE	TRUSS DATA		CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	NO	DIA			MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1⅛"x.31	59'-3"	7	A36	3 x 2"x.33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58-9 3/4		CP1	A36	½-3	40'-0"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1				END STIFFENER MK V3				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	DIA	LENGTH
C32T8E-593	9	A242	2"x1⅛"x.25	1'-10"	6'-1 1/4"		A36	1.09	6'-3 1/16"	2	A36	1.09	2'-7 5/8"	A36	1.09	4 5/8"		A36	1.09	2'-9 1/2"		DS1	A242	.75	6'-3 1/16"
																						DS2	A242	.75	

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1				END STIFFENER MK V2				WEB "WC"					WEB "WT"				Web		
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA
C32T8E-593	8	A242	2"x1½"x.23	1'-2"	6'-3 1/2"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4 1/4"	A242	1.14	4 1/8"		A242	1.14	7 1/8"		4	A242	1	1.14	3'-0 1/8"	—	—	—	—	—	3A	A242	1.14

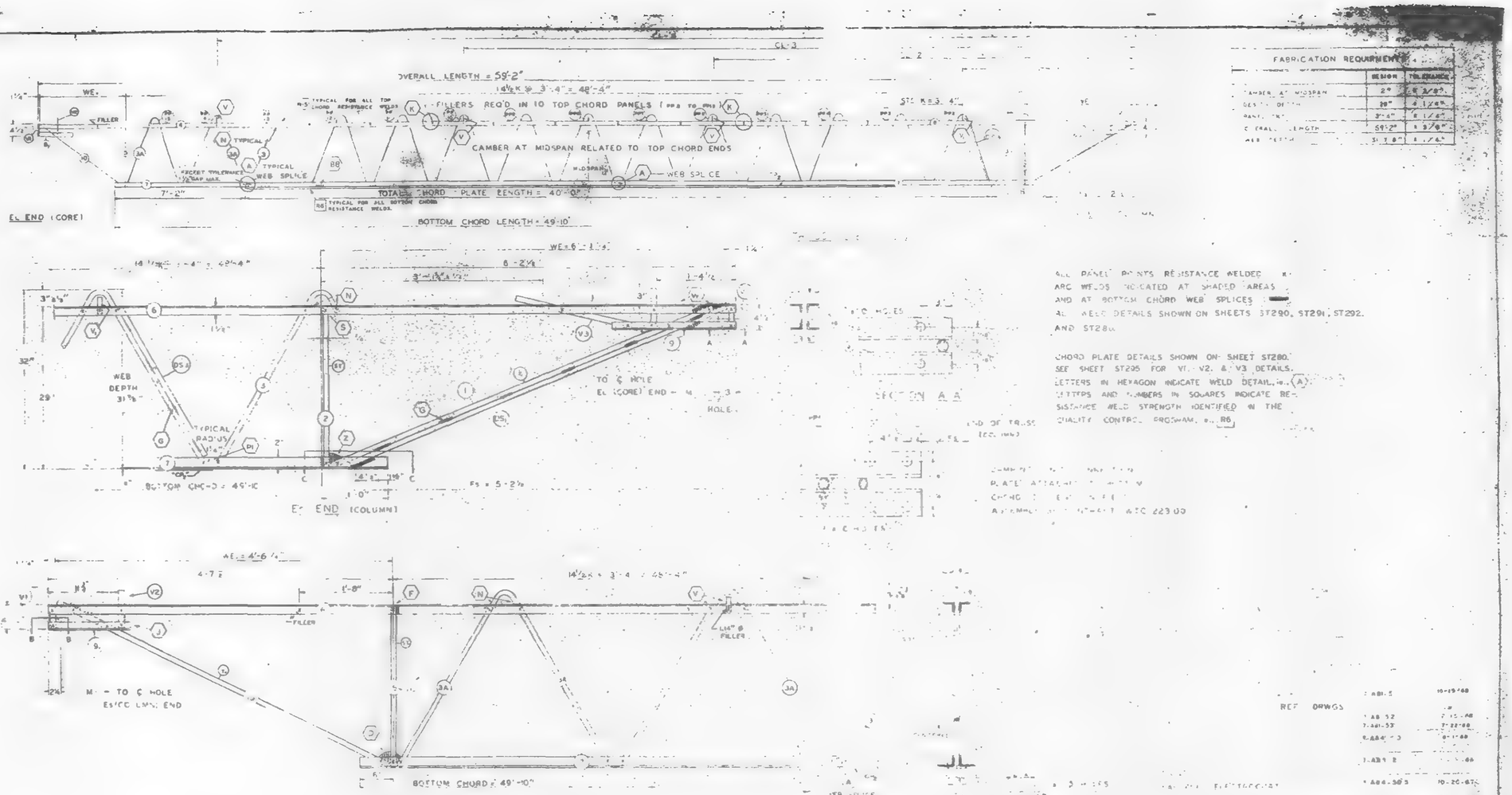
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E — 59'-3" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE DRAWN BY DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE CHECKED BY J.R. PAUL DATE FEB 24, 1968 PROJ. ENGR.
DETAILED BY A.C. WEBER	FABRICATION CONT. NO WTC - 221 SHEET NO ST208E



FABRICATION REQUIREMENTS

	MEMBER	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DEPTH	29"	± 1/16"
PANEL	3'-4"	± 1/16"
OVERALL LENGTH	59'-2"	± 3/16"
END DEPTH	31⅝"	± 1/16"

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6

PLATE ATTACHMENT
CHORD
ASSEMBLY

REF DRWGS

7-AB1-5	10-19-68
7-AB 32	7-15-68
7-AB1-53	7-22-68
8-AB4-23	8-1-68
7-AB1 2	7-68
8-AB4-305	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	BOTTOM CHORD TWO ANGLES TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB MK	TYPE STEEL	DIA	LENGTH	NO OF ℄	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS MO	DIA	LENGTH	HOR PLATE MK	TYPE STEEL	SIZE	LENGTH	DIAGONAL STRUT MK	TYPE STEEL	DIA	LENGTH
C32TBF 592	6	A242	2"x1½"x.31	59'-2"	7	A36	3"x2"x.32	49'-10"	3	A36	.109	79"-3⅜"	12 1/2 @ 3'-4" = 41'-8"	11	1.09	56-8½	1	.109	3"	CL	A36	3"x3"	40'-0"	CL	A242	.75	2'-6⅞"
									3A	A242	1.14	112-5⅞"	2 @ 3'-4" = 6'-8"													

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32TBF 592	9	A242	2"x1½"x.25	2'-3"	6'-1"⅛	1	A36	.09	6'-3½"	7	A36	.109	2'-4⅝"	A36	.109	4⅜"	A36	.109	2'-9"⅝	.105	A242	.92	6'-3"⅛

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	35'-2½"	49'-8⅛"	5'-2⅛"

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
CORE END	C32TBF 592	9	A242	2"x1½"x.25	1'-1¾"	4'-6'4.10	1	A242	1.14	5'-0½"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	1.14	A2												

STEEL TRUSS DETAILS

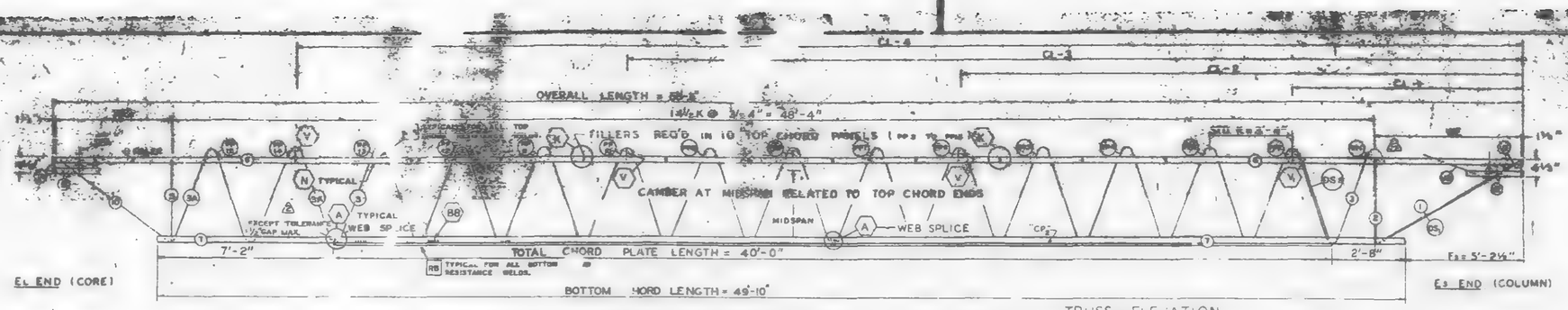
FLOOR TRUSS C32TBF 59'-2" OVERALL

WORLD TRADE CENTER

A.I.S.C. STEEL COMPANY

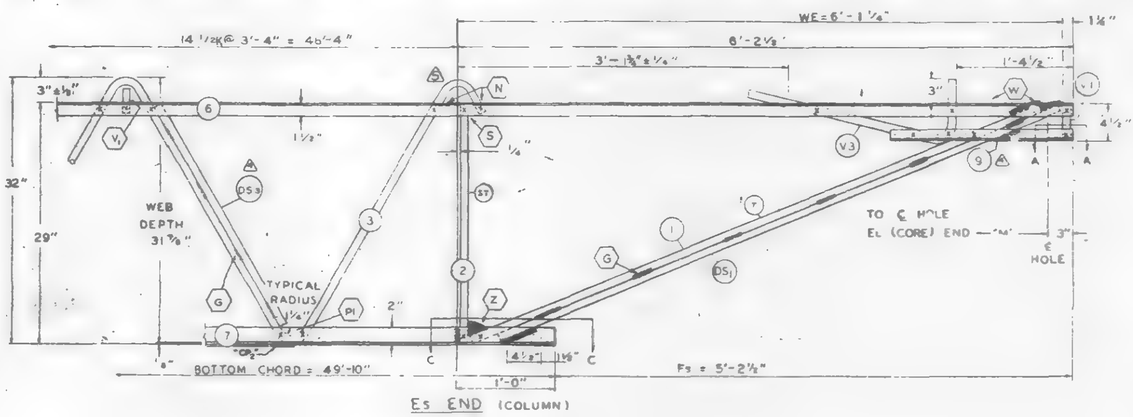
DRAWN BY
DATE 3/14/69
CHECKED BY
DATE
IN CHARGE OF PROD. DEV.
SHEET NO. ST280

James White

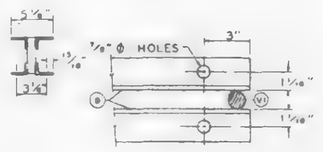


TRUSS ELEVATION

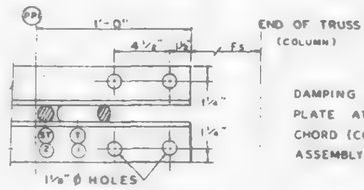
FABRICATION REQUIREMENTS	
CAMBER AT MIDSPAN	3"
DEPTH AT MIDSPAN	32"
PANEL "K"	48"-4"
OVERALL LENGTH	58'-8"
WEB DEPTH	29"



E3 END (COLUMN)



SECTION A-A

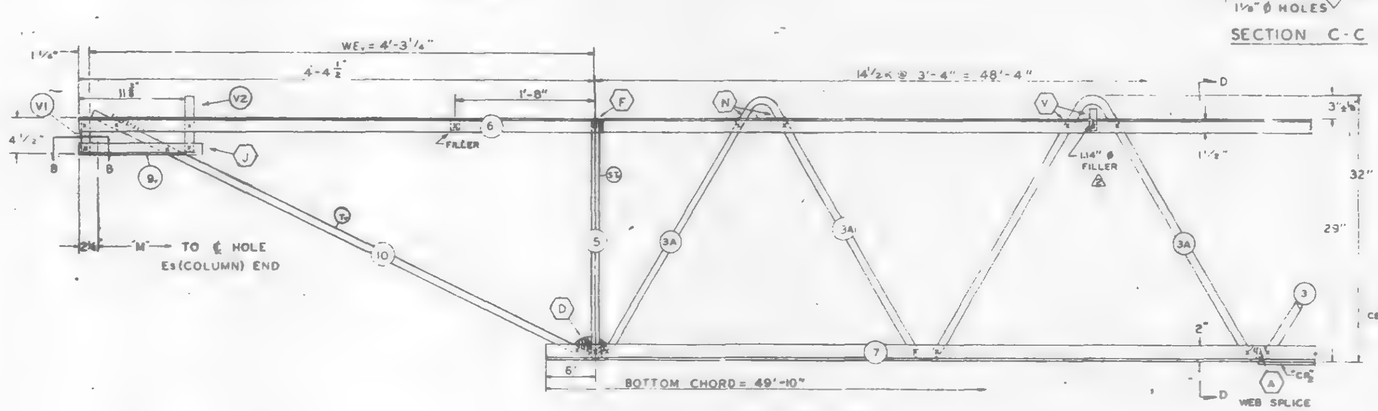


SECTION C-C

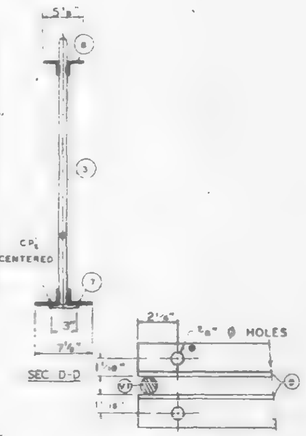
ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292.
AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.



E1 END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
5	12-12-68	AS NOTED	D.G.C.
4	7-22-68	MK (9) LENGTH & DS3 LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF. DRWGS

7-AB1-5	10-19-66
7-AB-32	2-15-68
7-AB1-33	7-22-68
7-AB4-10	8-1-68
7-AB3-2	1-3-68
7-AB4-30S	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF ℔	NO	DIA		NO	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
C32T8G-58II	6	A242	2"x1½"x.31	58-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	78'-3⅜"	12½x3 @ 3'-4" = 41'-8"	11	1.09	56-5⅜"	3	1.09	⅜"	CP1	A36	½"x3	40'-0"	DS3	A242	.75	2'-6¾"
									3A	A242	1.14	112'-5½"	6 @ 3'-4" = 6'-8"				1	1.14	3"							

	E3 END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
COLUMN END		C32T8G-58II	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅜"	A36	1.09	2'-9⅛"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2⅛"	49'-6⅛"	5'-2⅛"

	E1 END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS	DIA	LENGTH
CORE END		C32T8G-58II	9	A242	2"x1½"x.25	1'-1¼"	4'-3¼"	10	A242	1.14	4'-9⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4"	A242	1.14	7"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8G — 58'-11" OVERALL

WORLD TRADE CENTER TOWER A-B

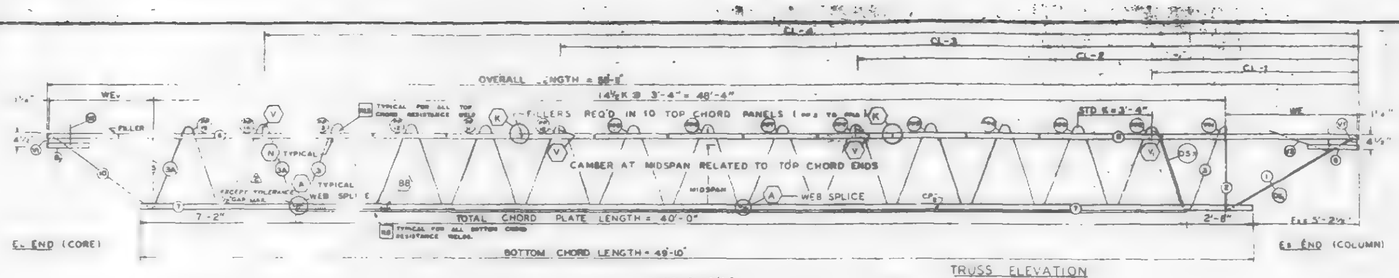
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 12/19/68
DRAWN BY [illegible] DATE FEB. 24, 1968

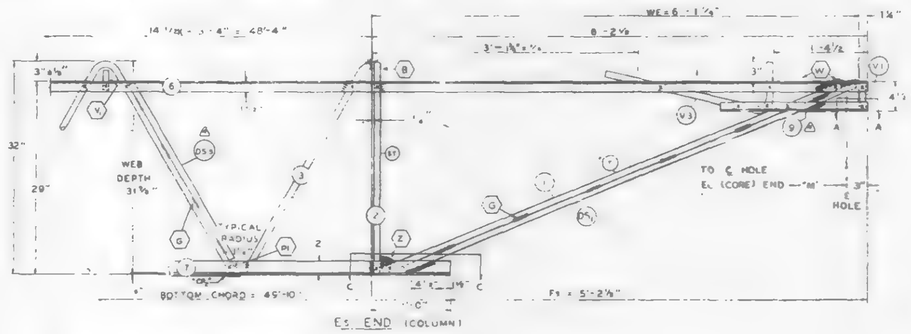
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB. 24, 1968
IN CHARGE OF PROD. DEV.

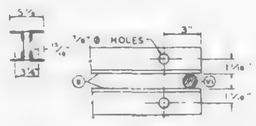
DETAIL LACLEDE STEEL CO. J.C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. ST 280



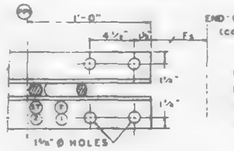
TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "A"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3'-0"
WEB DEPTH	31 7/8"	-0 +4





SECTION A-A

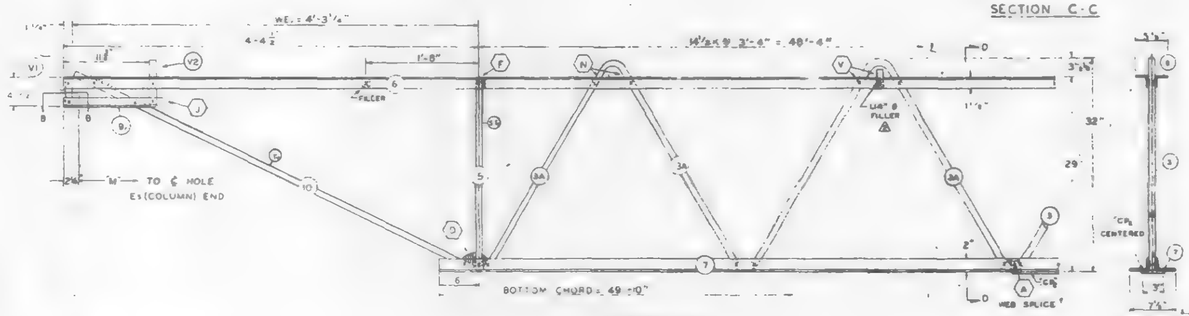


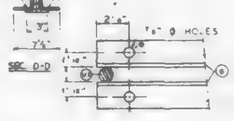
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00





SECTION B-B

NO.	DATE	REVISION	BY
4	7-22-68	MK (9) LENGTH & DS3 LENGTH	TMC
3	7-8-68	TOLERANCE WEB SPLICE	TMC
2	8-27-68	AS NOTED	TMC
1	6-22-68	GENERAL	TMC

REF DRWGS

7-ABI-5	4-15-68
7-ABI-52	7-15-68
7-ABI-53	1-3-68
7-ABI-1 & 502	10-20-67
7-ABI-2	3-68
7-AB4-503	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-58ll	6	A242	2"x1'-8"x 3	58'-11"	7	A36	3"x2"x 33	48'-10"	3	A36	1/4	3'-4"	15	11	1.09	56-5 5/8"	1	1/4	3"	CP1	A36	3/4	40'-0"	DS4	A242	.75	2'-6 1/2"
									3A	A242	1/16	1'-6 1/2"	8 @ 3'-4"													

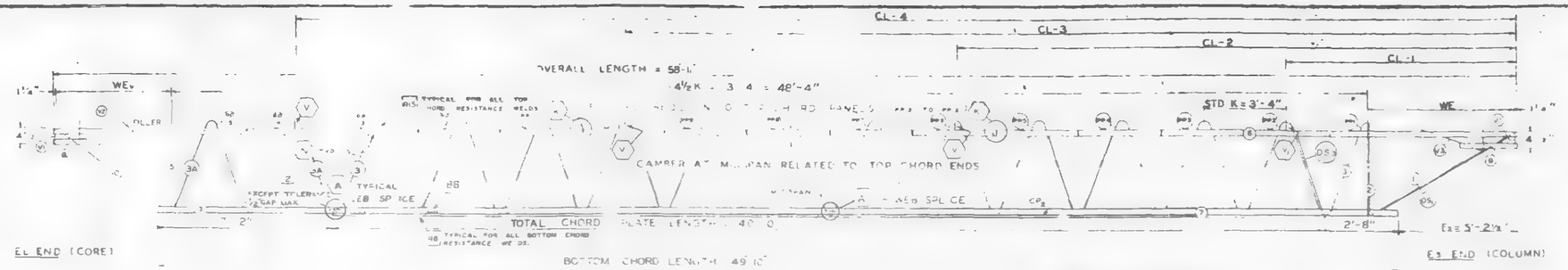
COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T8G-58ll	9	A242	2"x1'-5"x 28	2'-3"	6'-1"	1	A36	1.09	6'-3 1/16"	2	A36	1.09	2'-7 5/8"	A36	1.09	4 5/8"	A36	1.09	2'-8 1/8"	DS5	A242	.92	6'-3 1/16"

CHECK DIMENSION FOR TRUSS FAB.

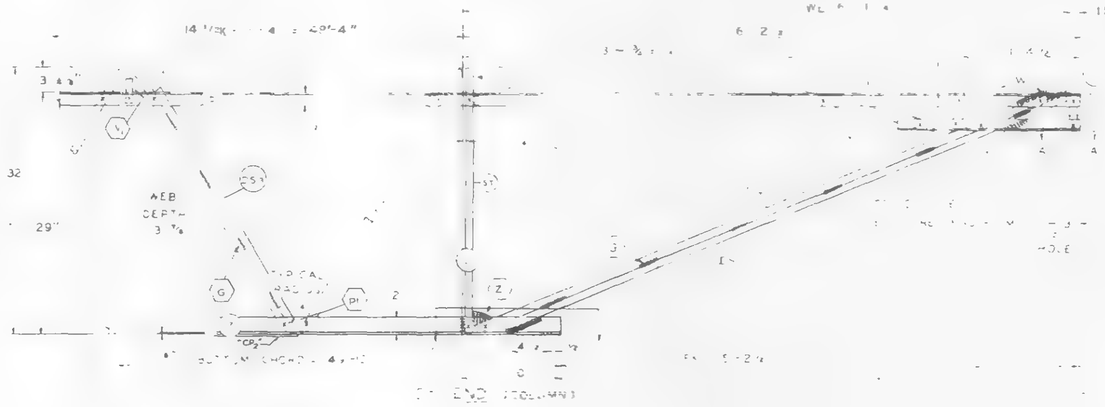
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/16"	22'-10 1/16"	36'-2 5/8"	49'-8 13/16"	5'-2 1/8"

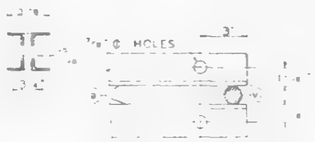
CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	WEB "W" MK	TYPE STEEL	WEB "M" MK	TYPE STEEL
	C32T8G-58ll	9	A242	2"x1'-5"x 25	1'-1 5/8"	4'-3 1/4"	10	A242	1/4	4'-9"	5	A242	1/4	2'-4 5/8"	A242	1/4	4"	A242	1/4	7"	—	—	—	—	—	—	—

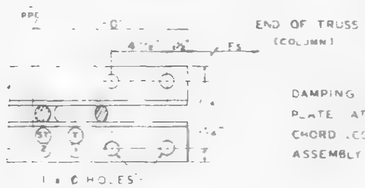
STEEL TRUSS DETAILS FOR WORLD TRADE CENTER N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T8G	58'-11" OVERALL
WORLD TRADE CENTER - TOWER A-B	
FABRICATION BY	LACLEDE STEEL COMPANY
FABRICATED AT	MADISON, ILLINOIS
DESIGN DRAWING NO	7-ABI-5 7-AB3-2
PLATE	
APPROVED FOR FABRICATION BY DSR FOR BIDDING	DATE 8/2/68
DRAWN BY	
APPROVED FOR FABRICATION FOR	DATE FEB 24, 1968
CHIEF ENGR. IN CHARGE OF PROJ. DEV.	DATE FEB 24, 1968
DETAILED BY	ABBREVIATION FOR NO 221-4
SHEET NO	ST2086



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 5/8"
DESIGN DEPTH	8"	± 1/4"
PANEL PT.	4"	± 1/4"
OVERALL LENGTH	58'-11"	± 8"
WEB DEPTH	3 7/8	± 1/4"



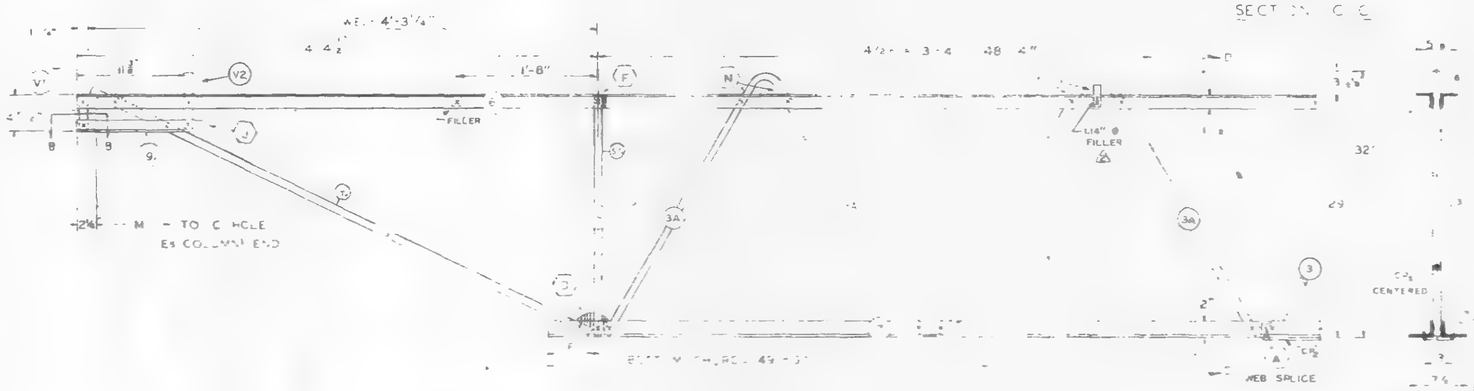




ALL PANEL POINTS RESISTANCE WELDED - ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (■)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	8-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-ABI-5	4-15-68
7-ABI-52	2-13-68
7-ABI-53	1-3-68
7-AB4-3 & 30.2	10-20-67
7-AB1-2	1-3-68
7-AB4-30.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED MIO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				WEB MEMBER						FILLER PLATE		CONNECTION FILLERS		HORIZ. PLATE		DOUBLE STRUT			
	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	MK	TYPE STEEL	SIZE	MK	TYPE STEEL	SIZE LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8G-58'	6	A242	2"x1"x.25	58'-0"	3 3A	A36 A242	10.9 11.4	77'-10⅜" 12'-5½"	2	A36	10.9	2'-3¼"	4 8"	3	A36	10.9	3	A36	5" CL 40'-0"	DS	A242	.75	2'-8½"

TRUSS DESIGNATION	END	HEADING ANGLES TYPE STEEL	SIZE	LENGTH	WE	DIAGONAL ST. STRUT TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" TYPE STEEL	PCS	DIA	LENGTH
C32T8G-58'	E1	A242	2"x1"x.25	1'-1¼"	4'-3¼"	A242	11.4	4'-9½"	A242	11.4	4'-4¾"	A242	4	4½"	A242	4	7⅛"	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS TRUSS

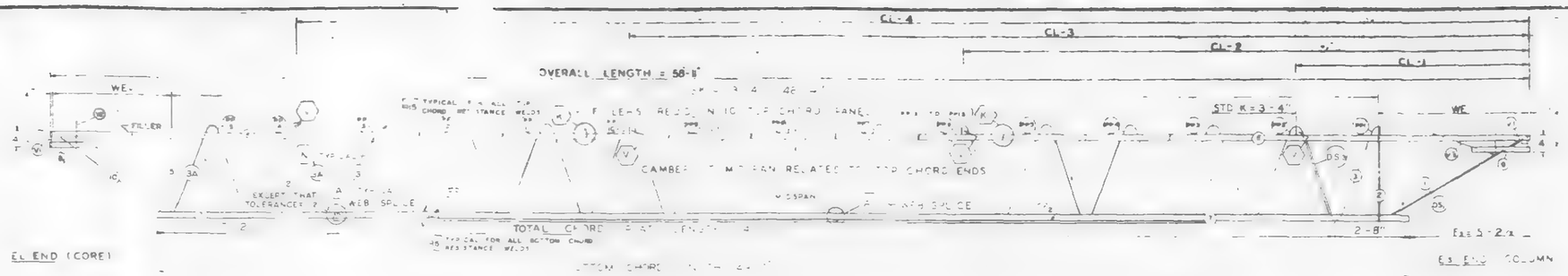
CL-1	CL-2	CL-3	CL-4	E3
3'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

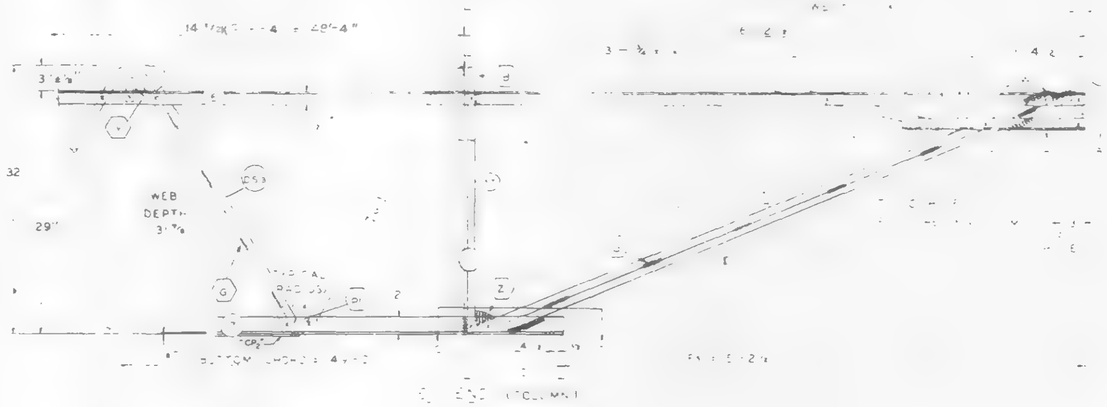
FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

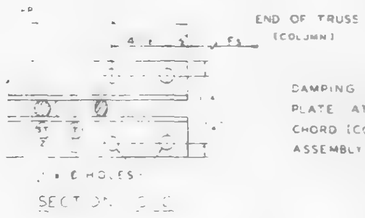
FABRICATION BY [illegible] COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-5	7-AB3-2	PLATE
APPROVED BY GW FOR FABRICATION	DATE 7/17/68	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED BY [illegible] FOR PORT AUTH.	DATE	TRACED BY JR PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.
[illegible]		LAC CAT-3A CONT NO 221	SHEET NO ST2[illegible]



FABRICATION REQUIREMENTS	DESIGN	AS CONSTRUCTED
CAMBER AT MIDSPAN	2"	
DESIGN DEPTH	58"	
PANEL	14'-4"	
OVERALL LENGTH	58-8	
WEB DEPTH	31 7/8"	

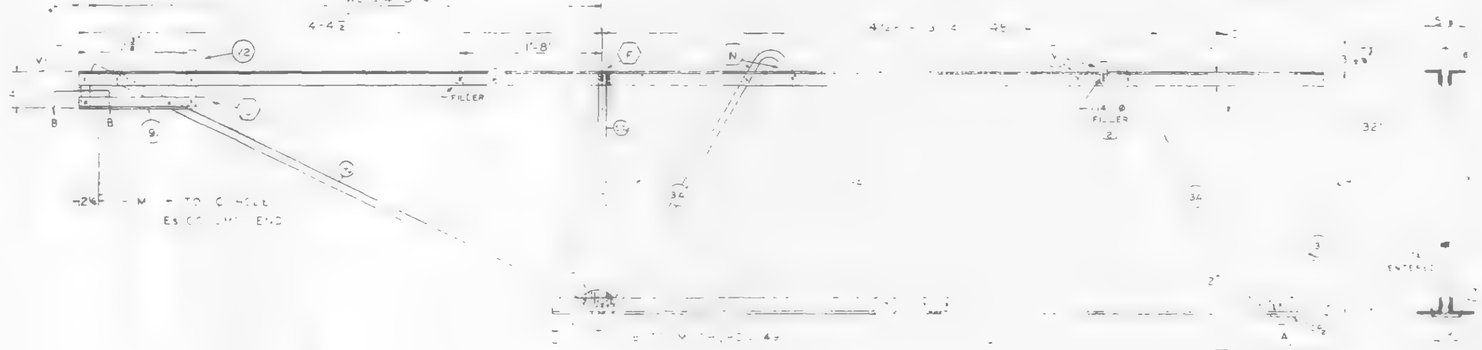




ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST293.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 22300



NO.	DATE	REVISION	BY
2	8-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-ABI-5	4-15-68
7-AB-52	7-15-68
7-ABI-53	1-3-68
7-AB4 J & SO 2	10-20-67
7-AB1 2	1-3-68
7-AB4-503	10-20-67

REF DRWG LACLEDE ELECTRODAY
REQ NO. 0.1

TRUSS DESIGNATION	TOP CHORD						BOTTOM CHORD						WEB STRUT						CONNECTION PLATE						SLE STRUT			
	MK	TYPE STEEL	SIZE	LENGTH			MK	TYPE STEEL	SIZE	LENGTH			MK	TYPE STEEL	DIA	LENGTH	NO		MK	TYPE STEEL	SIZE	LENGTH	NO		MK	TYPE STEEL	DIA	LENGTH
C32T8G-58	6	A242	2"x1 1/2"x.25	2'-0"			7	A242	2"x1 1/2"x.25	2'-0"			8	A242	1 1/4"	1'-10 1/2"	2		9	A242	2"x1 1/2"x.25	1'-1 1/4"	2		10	A242	1 1/4"	4'-8 1/4"

TRUSS DESIGNATION	BEARING ANGLES				WE.	DIAGONAL T. STRUT			VERTICAL ST. STRUT			END STIFFENER						WEB "WC"				WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	MK	TYPE STEEL	DIA	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8G-58	9	A242	2"x1 1/2"x.25	1'-1 1/4"	4'-8 1/4"	10	A242	1 1/4	11	A242	4	A242	14	4'-9 1/2"	A242	4	7'-4 3/4"	—	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

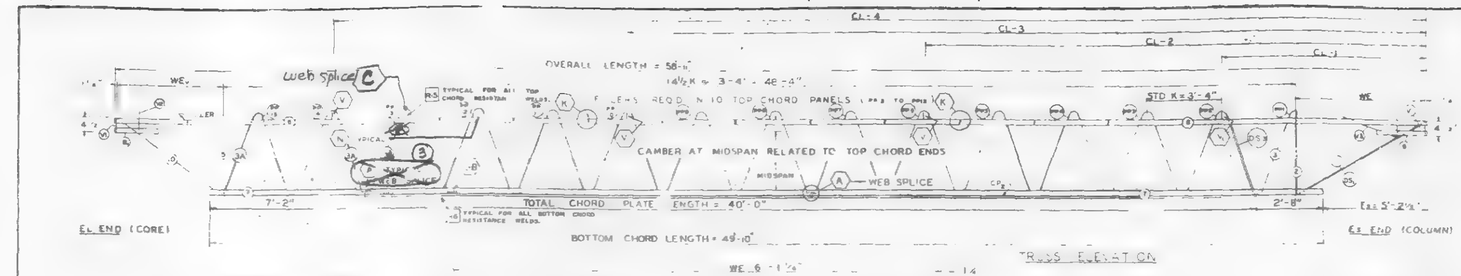
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/4"	36'-2 1/2"	49'-6 1/4"	5'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

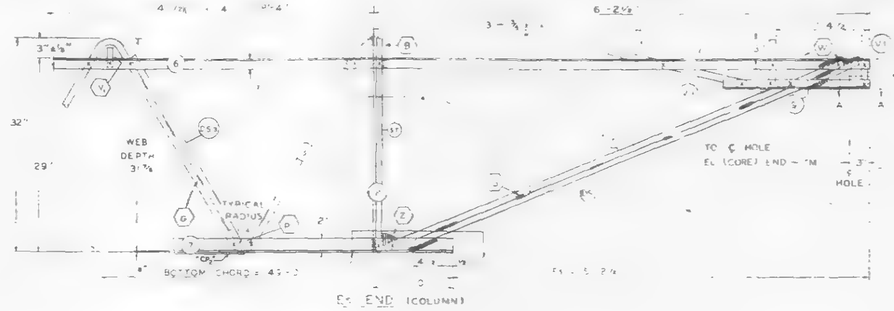
TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

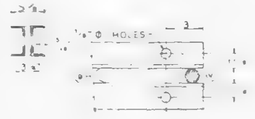
FABRICATION BY LACLEDE STEEL COMPANY

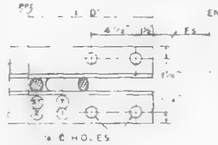
FABRICATED AT MADISON, ILL.	DESIGN DRAWING NO. 7-ABI-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY JW DATE 7/5/68	DRAWN BY DATE FEB 24,1968
APPROVED FOR FABRICATION BY DATE	CHECKED BY J.B. PAUL DATE FEB 24, 1968 IN CHARGE OF PROD DEV.
ENGINEER BY A.E. WOMER	FABRICATION CONT NO. A-C 221 SHEET NO. ST 289



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 3/8"
WEB DEPTH	29 7/8"	± 1/4"



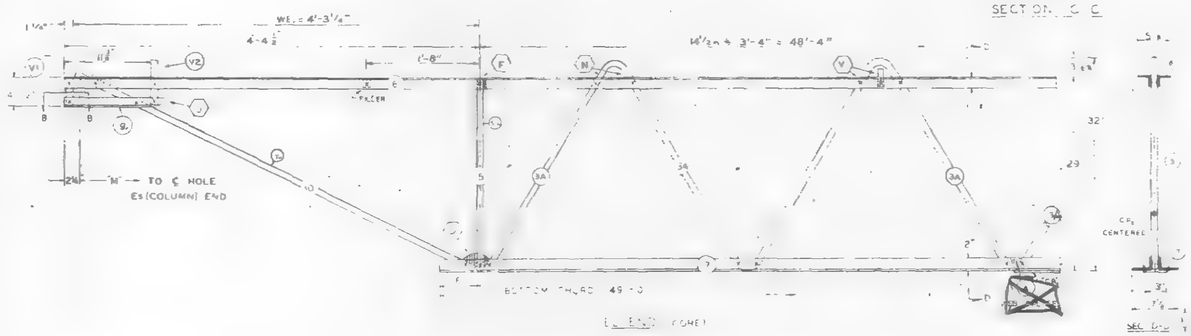




ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COLUMN END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



NO.	DATE	REVISION	BY
1	6-22-68	GENERAL	TMC

REF DRWGS
7-ABI-5 4-15-68
7-ABI-52 2-15-68
7-ABI-53 1-3-68
7-AB4 "J & SO 2" 10-20-67
7-AB3 2 1-3-68
7-AB4-303 10-20-67

4/25/68 WCB

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER MK	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-581	6	A242	2"x1½"x.31	58'11"	7	A36	3"x2"x.33	49'-10"	3 3A	A36 A242	1.08 1.14	77-10⅝" 1.12-3⅛"	12½ K @ 3'-4" = 41'-8" 2 2½ K @ 3'-4" = 8'-0"	11	1.09	58-5⅜"	1.09 1.16	3" 3"	CP3	A36	¾"x2"	40'-0"	DS8	A242	.75	2'-8½"

TRUSS DESIGNATION	E1 END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-581	COLUMN END	9	A242	2½"x2½"x.25	2'-2"	6'-4"	1	A36	.59	6'-3¼"	2	A36	1.09	2'-7⅝"	A36	1.09	4'-8"	A36	1.09	2'-9'-4"	DS1	A242	.92	6'-3¼"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	F2
9'-6⅝"	22'-10½"	36'-2½"	49'-0½"	5'-2½"

TRUSS DESIGNATION	E1 END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8G-581	CORE END	8	A242	2"x1½"x.25	1'-1¼"	4'-2¾"	10	A242	1.14	4'-9"	5	A242	.41	2'-4⅝"	A342	.4	4"	A242	1.4	7⅜"	—	—	—	—	—	—	—	—	—	—	—	—

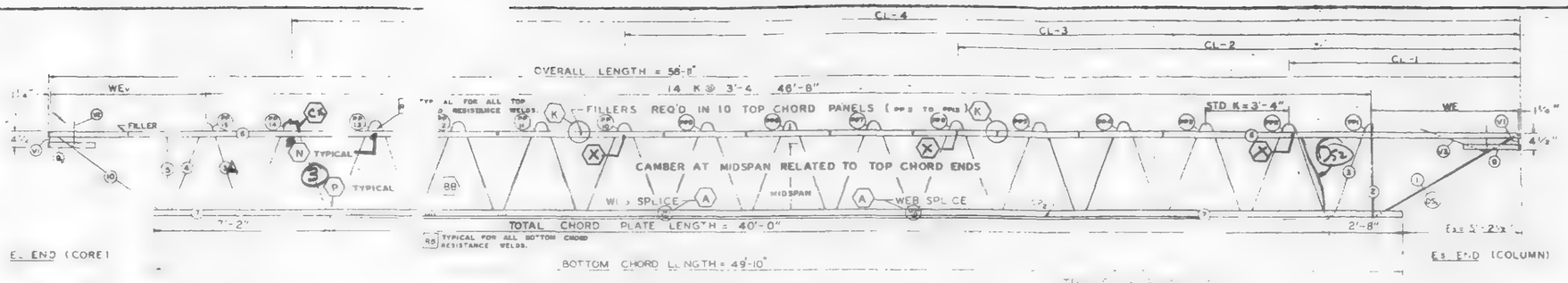
FABRICATED AT MADISON, ILLINOIS	SHOP DRAWING NO 7-ABI-5 7-AB3-2 PLATE —
APPROVED FOR FABRICATION BY FOR PONYS	DATE DRAWN BY DATE FEB 26, 1968
APPROVED FOR FABRICATION BY	DATE CHECKED BY JR PAUL DATE FEB. 29, 1968
FABRICATION BY	FABRICATION CONT NO 221

IN CHARGE OF PROD DEV —
SHEET NO ST2004

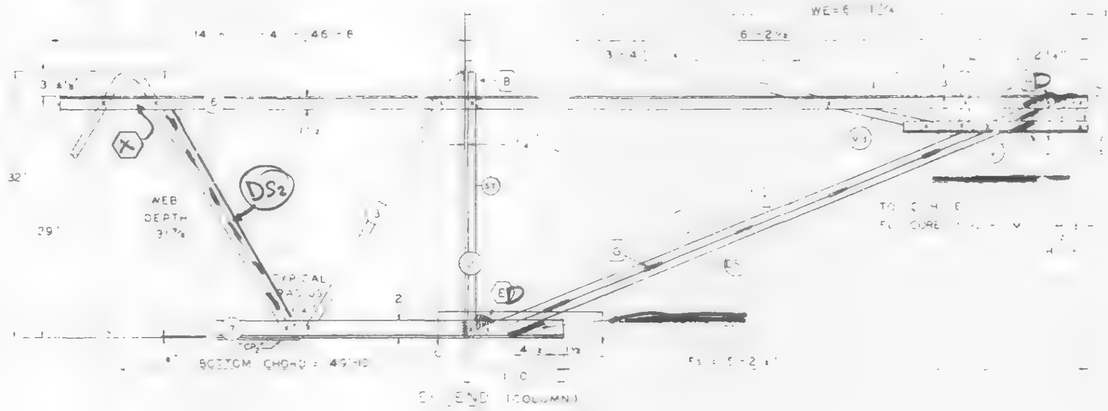
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

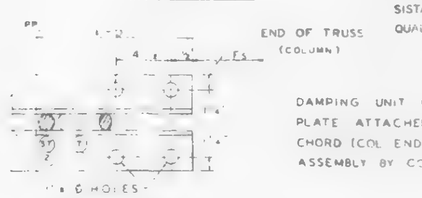
FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY



FABRICATION REQUIREMENTS	
	DESIGN
CAMBER AT MIDSPAN	1"
DESIGN DEPTH	20"
PANEL "K"	3'-4"
OVERALL LENGTH	58'-8"
WEB DEPTH	31'-7⅛"

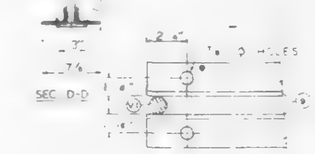




ALL PANEL POINTS RESISTANCE WELDED (x). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( ). ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280 SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 22300.



6/13/68 Was

4-15-68

REF DRWGS

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	MK	TOP CHORD ANGLES TYPE STEEL	TOP CHORD ANGLES SIZE	TOP CHORD ANGLES LENGTH	MK	BOTTOM CHORD ANGLES TYPE STEEL	BOTTOM CHORD ANGLES SIZE	BOTTOM CHORD ANGLES LENGTH	MK	MAIN WEB "W" TYPE STEEL	MAIN WEB "W" DIA	MAIN WEB "W" LENGTH	MAIN WEB "W" NO OF K	FILLER NO	FILLER DIA	"M" C MOLE	TRUSS DATA	MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH
C32T8G-58	6	A242	2"x3½"x.25	1'-0"	6	A242	2"x3½"x.25	58'-5"	3	A36	109	49'-10" = 87'-2⅛" + 14 @ 3'-4" = 46'-8"	11	109	58-5¾"			CP	A36	3/4"	40'-0"

TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	DIAGONAL "D" STRUT MK	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL "S" STRUT MK	VERTICAL "S" STRUT TYPE STEEL	VERTICAL "S" STRUT DIA	VERTICAL "S" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V3 TYPE STEEL	END STIFFENER MK V3 DIA	END STIFFENER MK V3 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
C32T8G-58	9	A242	2"x3½"x.25	1'-0"	6	A36	09	6'-3¼"	2	A36	09	2'-7⅞"	A36	109	4'-5⅛"	A36	109	2'-9⅛"	DS2	A242	.75	6'-3½"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL	CL-2	CL-3	CL-4	Fs
9'-6⅜"	22'-10⅛"	36'-2⅝"	49'-6⅛"	5'-2½"

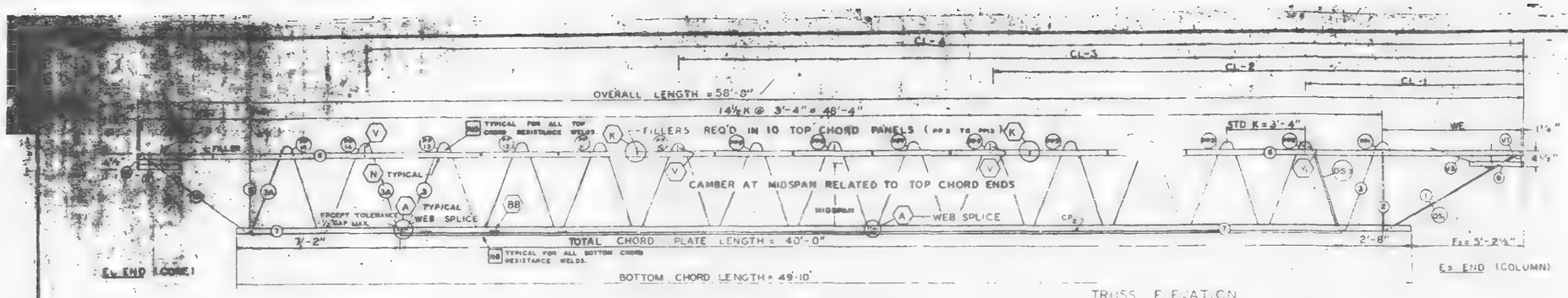
TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	DIAGONAL "D" STRUT MK	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL "S" STRUT MK	VERTICAL "S" STRUT TYPE STEEL	VERTICAL "S" STRUT DIA	VERTICAL "S" STRUT LENGTH	END STIFFENER MK V1 TYPE STEEL	END STIFFENER MK V1 DIA	END STIFFENER MK V1 LENGTH	END STIFFENER MK V3 TYPE STEEL	END STIFFENER MK V3 DIA	END STIFFENER MK V3 LENGTH	WEB "WC" MK	WEB "WC" TYPE STEEL	WEB "WC" PCS	WEB "WC" DIA	WEB "WC" LENGTH	WEB "WT" MK	WEB "WT" TYPE STEEL	WEB "WT" PCS	WEB "WT" DIA	WEB "WT" LENGTH	WEB MK	WEB DIA
C32T8G-58	9	A242	2"x3½"x.25	1'-0"	6	A242	1¼	4'-9⅛"	5	A242	4	2'-4⅝"	A242	1¼	4'-8"	A242	1¼	1'-7"	4	A242	1	1¼	3'-0⅛"	—	—	—	—	—	3A	A242	1¼

PLATE	WIDTH	THICK	LENGTH
FL	12"	1"	58'-8"
WEB	31 7/8"	½"	

FLOOR TRUSS C32T8G 58'-11" O.A.L.

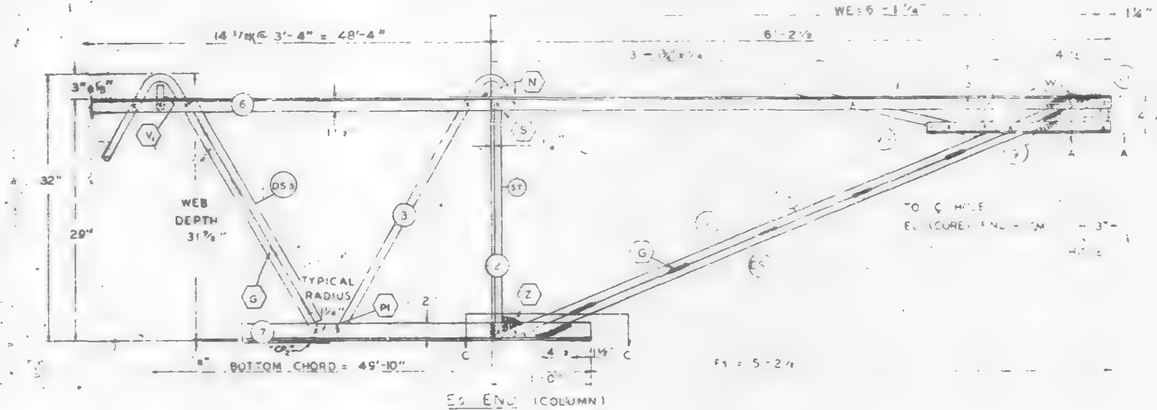
WORLD TRADE CENTER, TOWER A-B

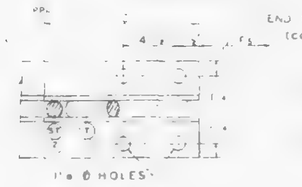
FABRICATED AT MADISON, ILLINOIS



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-6"	± 1/8"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

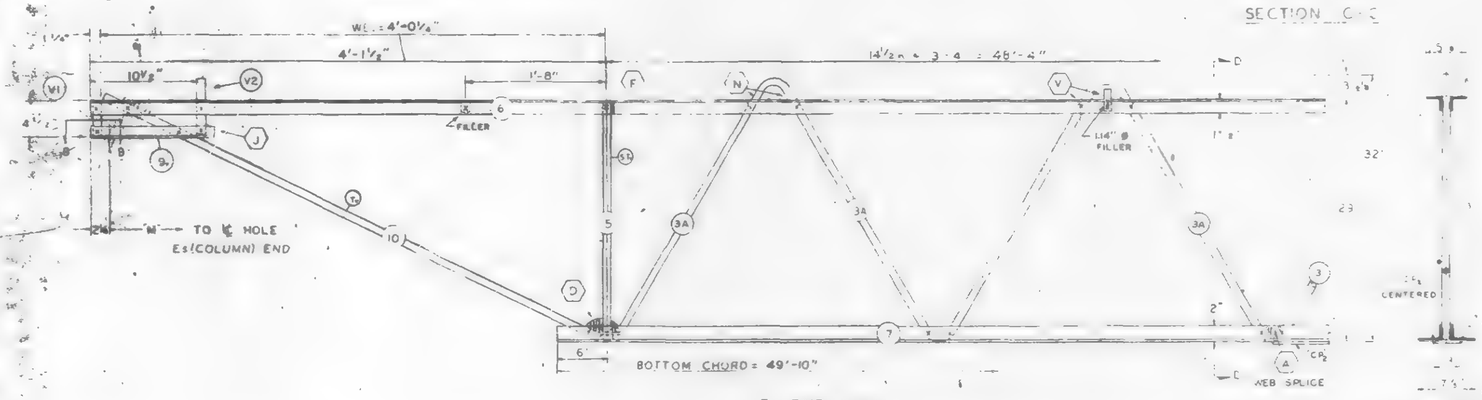




ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST201, ST291, ST292 AND ST294

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS. A LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY
	7-AB1-5	10-15-68	
	7-AB-52	2-15-68	
	7-AB-53	7-22-68	
	7-AB4	8-1-68	
	7-AB1-2	1-3-69	
	7-AB4-503	10-28-69	

REF DRWGS

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER ℄ HOLE NO	DIA
C321-588	6	A242	2"x1½"x.313	58'-8"	7	A36	3"x2"x.33	49'-10"	3	A36	LD9	12'-3¾"	12½ @ 3'-4" = 41'-9"	11	LD9
									3A	A242	LD14	12'-5½"	2 @ 3'-4" = 6'-8"		

TRUSS DESIGNATION	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C321-588	1	LD9	3"	CP2	A36	¼x36	40'-0"	DS1	A242	.75	2'-6¾"
	1	LD14	3"								

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH
C321-588	9	A242	2"x1½"x.281	2'-3"	6" 1 @ 1'-0"	1	A36	LD9	3'-9¼"	2	A36	LD9	2'-4½"

TRUSS DESIGNATION	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C321-588	A36	LD9	4⅝"	A36	LD9	2'-9.8"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	-2'-4"

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH
C321-588	8	A242	2"x1½"x.25	1'-0½"	4'-0½" 10 @ 4'-7"	A242	1.14	4'-7"	5	A242	1.14	2'-4⅛"

TRUSS DESIGNATION	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C321-588	A242	1.14	4'-	A242	1.14	7'-	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
OF AREA
TRUSS C321-588 58'-8" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

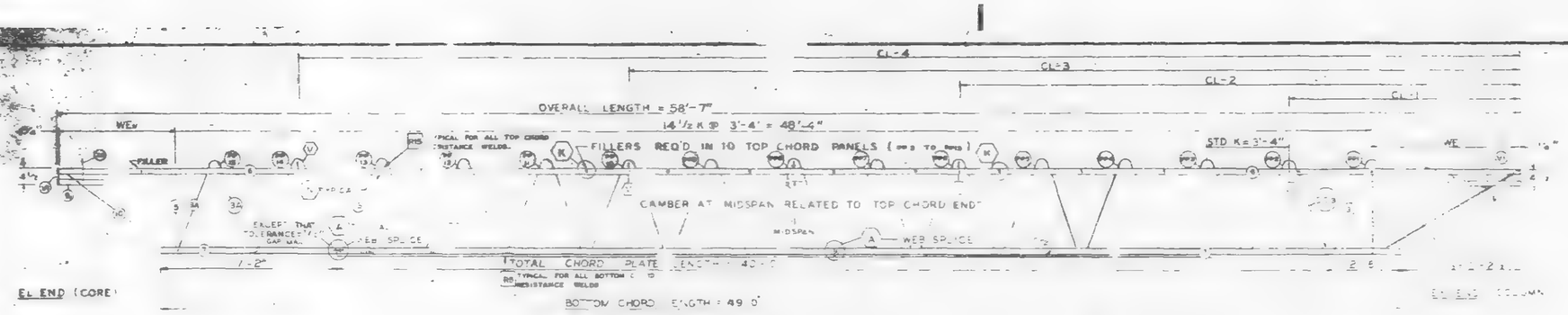
FABRICATED AT MADISON ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2
APPROVED FOR FABRICATION FOR DSNY DATE 4/5/69	DRAWN BY LJ DATE APRIL 15, 1969
APPROVED FOR FABRICATION BY DATE	CHECKED BY TMCHURA DATE APRIL 15, 1969
	FABRICATION CONT NO 221 L

James W. White

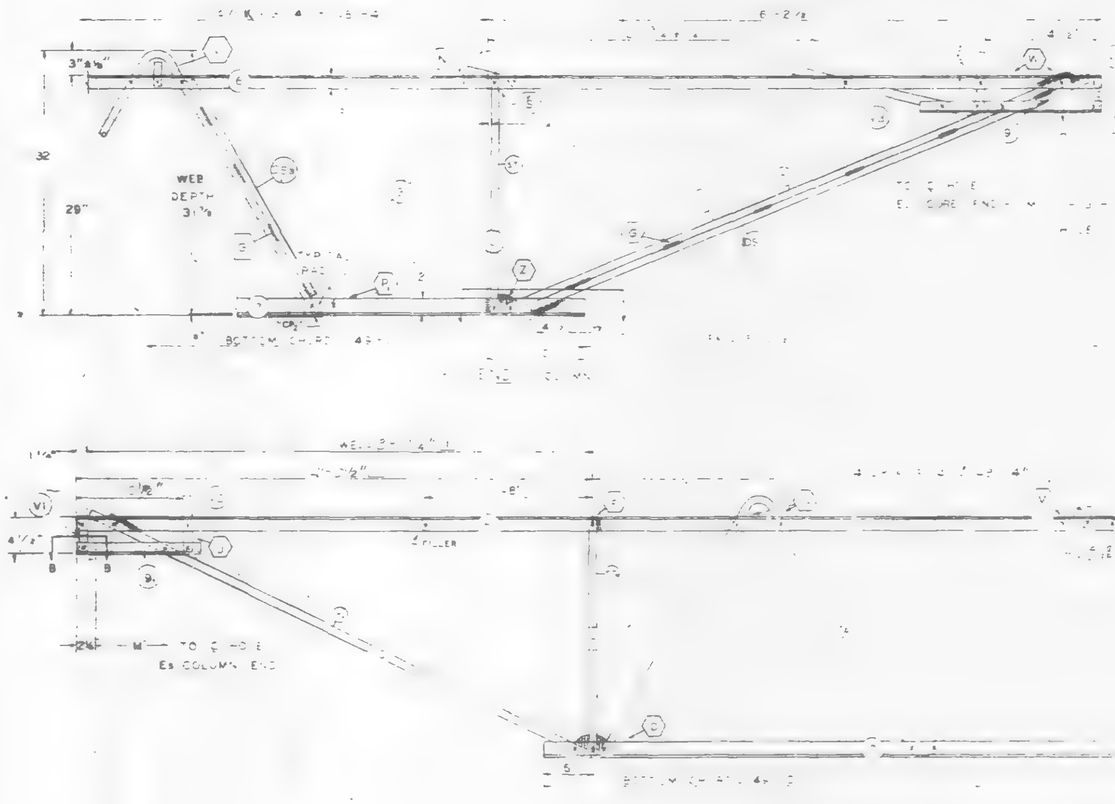
IN CHARGE OF PROD DEV

PLATE

SHEET NO ST208H



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 2"	
DESIGN DEPTH	29"	
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	58'-	± 3/8"
WEB		± 1/4"



ALL PANEL POINTS RESISTANCE WELDED
AND WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES

SQUARES INDICATE

LENGTH IDENTIFIED IN THE

DESIGNATION

MK	DATE	REVISION	BY
	2-2-69	E. DIMENSION	ITMC

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD ANGLES				WEB "W"				FILLERS		CONNECTION CHORD PLATE FILLERS				DOUBLE "W"		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	NO DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	LENGTH
C32T8 - 587	6	A242	2"x1 1/2"x 3/8"	58'-7"	7	A36	5"x2"x 3/8"	49'-10"	3	A36	1/2	2'-4 3/4"	1	1.09	58	3/8	40'-0"	CS1	A36	4x3/8	40'-0"	DS	A36	2'-6 3/4"

COLUMN END	ES END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE "W" MK	TYPE STEEL	DIA	LENGTH
		C32T8 - 587	9	A242	2"x1 1/2"x 5/16"	2'-3"	6"x1/4"		A36	1.09	6'-3 3/8"	2	A36	1.09	2'-4 5/8"	A36	1.09	4 5/8"	A			CS1	A242	1.62	6'-3 3/8"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL	CL-2	CL-3	CL-4	ES
0'-0"	22'-10"	36'-2"	49'-6"	51'-2"

COVER PLATE	END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8 - 587	8	A242	2"x1 1/2"x 5/16"	2'-0 1/2"		10	A242	1/4	4'-6 1/8"	5	A242	1.16	2'-4 1/2"	A242	1.4	4	A242	1.4	7													

SECTION B-B

DWG	DATE
AB1-5	10-15-68
AB1-52	2-15-68
AB1-53	7-29-68
AB4-51	8-1-68
AB3-2	11-3-68
AB4-50	10-20-67

STEEL TRUSS DETAIL

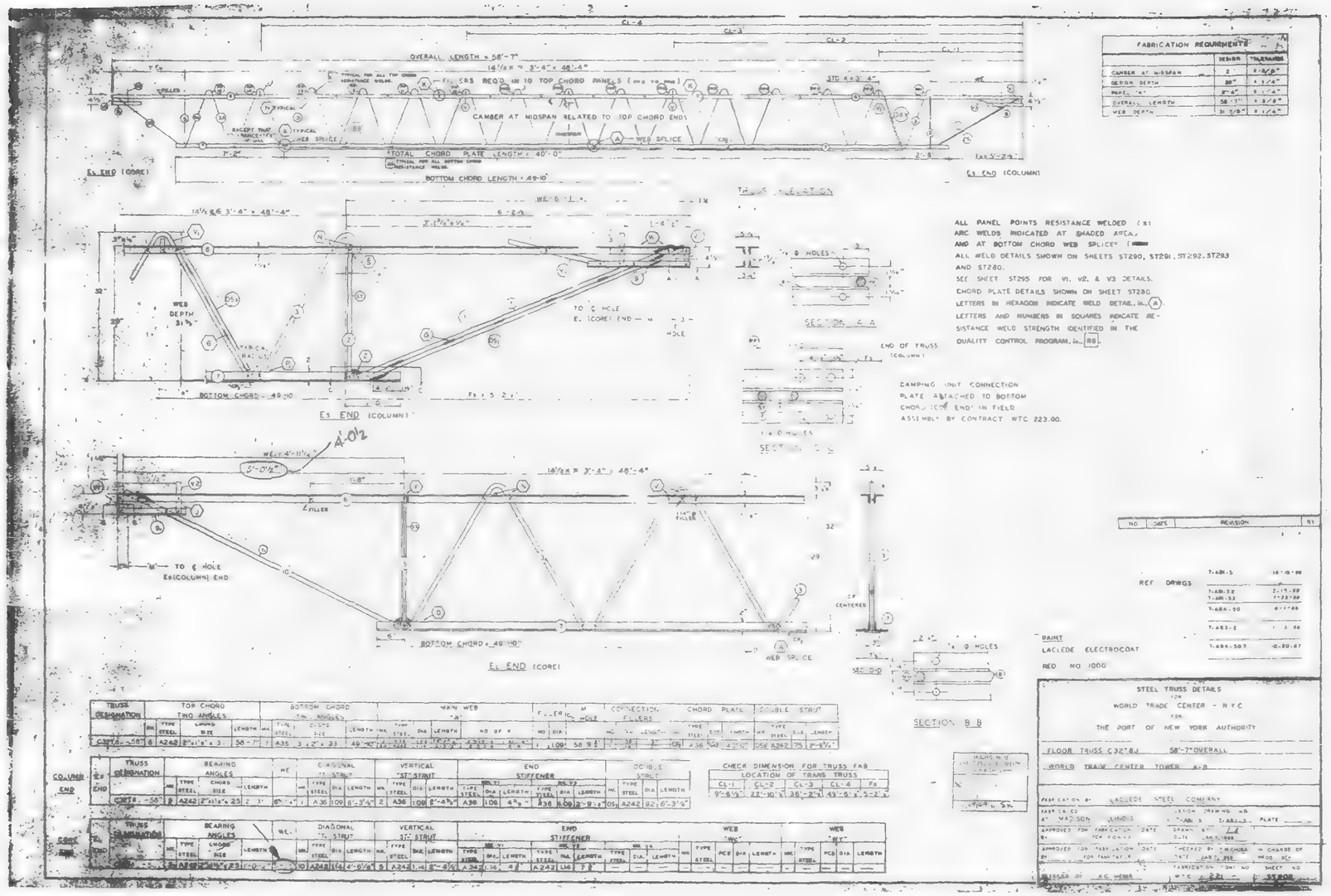
BLUE DIAMOND CENTER TOWER, A-B

58'-7" OVERALL

BLUE DIAMOND CENTER TOWER, A-B

FABRICATED BY LINDSAY STEEL COMPANY

APPROVED FOR FABRICATION	DATE
BY	FOR FABRICATOR
LACLEDE STEEL CO.	
DRAWN BY	DATE JAN 7, 1969
CHECKED BY T.M.CHUBA	DATE JAN 7, 1969
FABRICATION CONT NO	
SHEET NO.	
DRAWING NO. AB1-5 AB3-2	PLATE
CHARGE OF PROD DEV	
DETAILED BY A.G. WEBER	DATE



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	+ 2-1/8"
DESIGN DEPTH	88"	± 1/4"
PANEL "A"	3'-4"	± 1/16"
OVERALL LENGTH	58'-7"	± 3/8"
WEB DEPTH	31 3/8"	± 1/16"

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREA.
AND AT BOTTOM CHORD WEB SPLICE
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R8.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CORE END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

NO	DATE	REVISION	BY

REF DRWGS

7-AB4-5	10-13-88
7-AB4-52	2-19-88
7-AB4-53	7-22-88
7-AB4-50	8-1-88
7-AB3-2	1-3-88
7-AB4-505	10-20-87

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				WEB "A"			FILLERS		CONNECTION FILLERS		CHORD PLATE		DOUBLE STRUT		
	NO	TYPE STEEL	SHAPE SIZE	LENGTH	NO	TYPE STEEL	SHAPE SIZE	LENGTH	NO	TYPE STEEL	LENGTH	NO OF R	NO	DIA	NO	TYPE STEEL	LENGTH	NO	TYPE STEEL	DIA	LENGTH
CHT3 - 58"	8	A242	8"x8"x 3/4	58'-7"	4	A36	3 1/2"x 33"	49'-10"	2	A36	58'-8"	1	100	1"	2	A36	47'-0"	2	A242	1 1/2"	7'-8 3/4"

TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "S" STRUT			VERTICAL "ST" STRUT			END STIFFENER				DOUBLE STRUT		
	NO	TYPE STEEL	CHORD SIZE	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	DIA	LENGTH
CHT3 - 58"	8	A242	8"x8"x 1"	2'-3"	6	A36	10"	6'-3 1/4"	2	A36	10"	8'-4 3/8"	A36	10"	4"	8'-4 3/8"	A36	10"	2"	9'-3 1/4"

TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "S" STRUT			VERTICAL "ST" STRUT			END STIFFENER				WEB "WC"				WEB "WT"			
	NO	TYPE STEEL	CHORD SIZE	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	DIA	LENGTH	NO	TYPE STEEL	PCS	DIA	LENGTH	NO	TYPE STEEL	PCS	DIA	LENGTH
CHT3 - 88"	8	A242	8"x8"x 1"	2'-3"	10	A242	8 1/4"	6'-8 1/4"	8	A242	8 1/4"	8'-4 3/8"	16	A242	4"	8'-4 3/8"	16	A242	L46	7"	8"	—	—	—	—	—

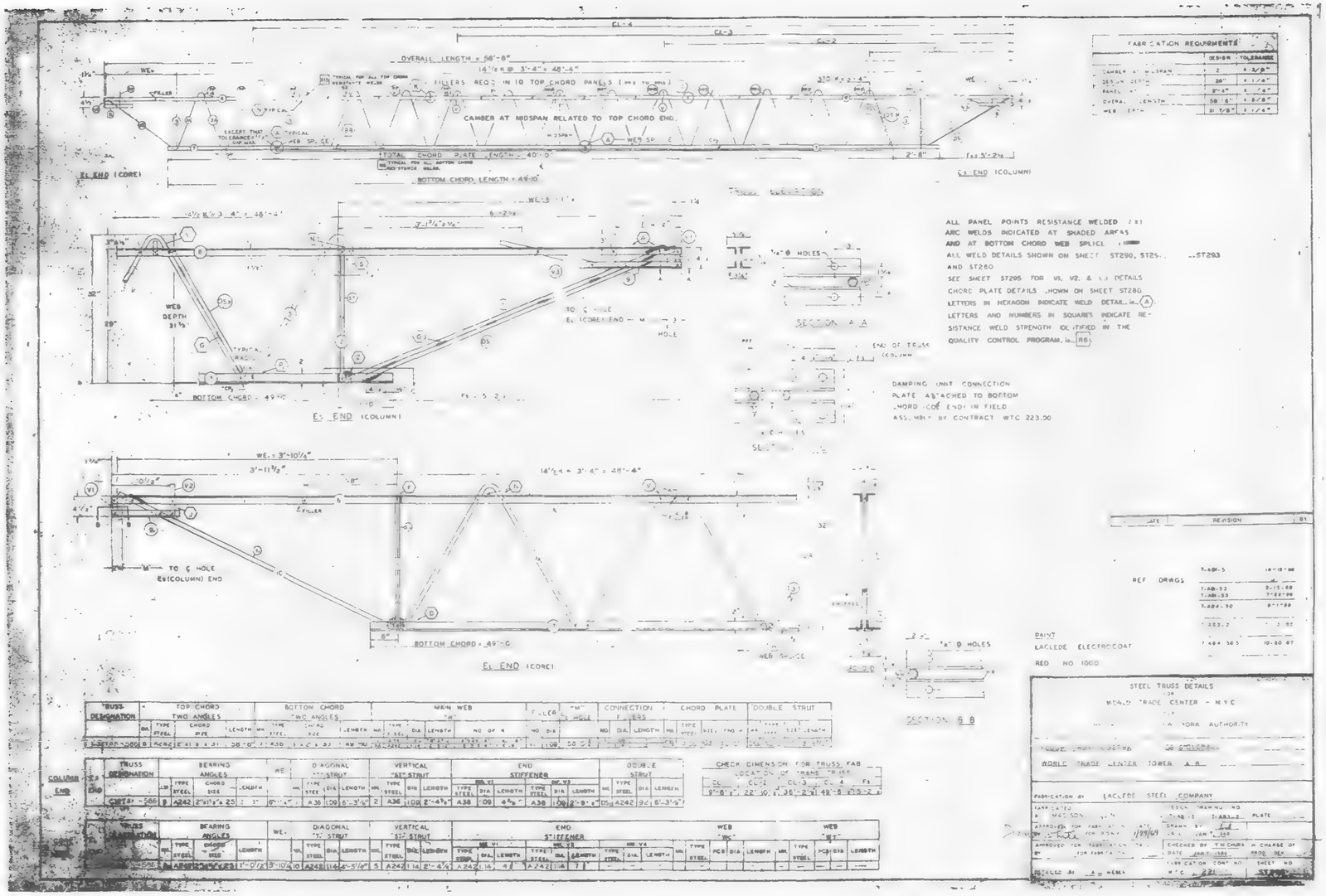
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	F5
9'-6 1/2"	22'-10"	36'-2"	49'-6"	5'-2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32"88 — 58'-7" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-3 TAB1-1 PLATE
APPROVED FOR FABRICATION BY FOR PANYNJ
DATE DRAWN BY LK DATE JAN 1988
APPROVED FOR FABRICATION BY FOR PANYNJ
DATE CHECKED BY M.CHURA IN CHARGE OF DATE JAN 1988
FABRICATION CONTRACT NO WTC 223.00 SHEET NO ST 288
DESIGNED BY A.C. WEBB



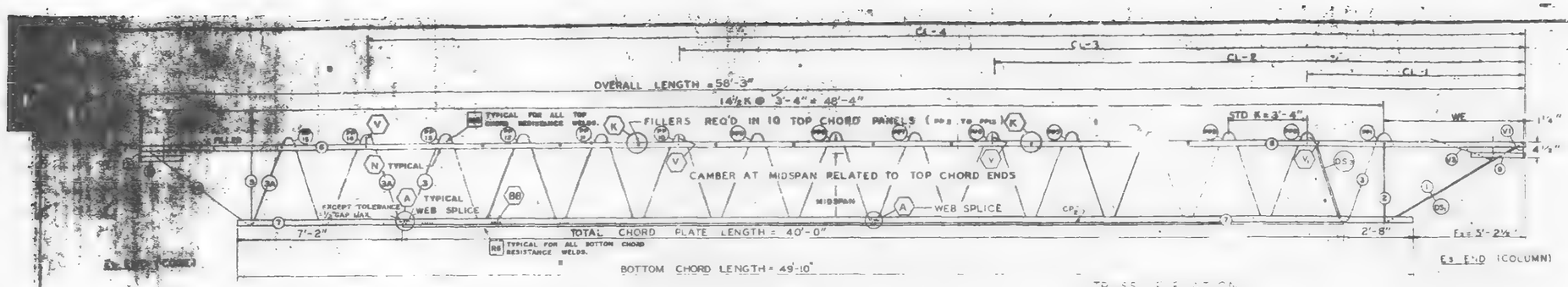
TRUSS DESIGNATION	TOP CHORD TWO ANGLES			BOTTOM CHORD TWO ANGLES			MAIN WEB			FILLER	"M" HOLE	CONNECTION FILLERS			CHORD PLATE		DOUBLE STRUT		
	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF ℄	NO	DIA	MK.	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
EL END (CORE) B	AC&F	[illegible]		38'-0"	A30	[illegible]		48'-10"	[illegible]	[illegible]				100		56						

TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "D" STRUT			VERTICAL "SV" STRUT			END STIFFENER MK. V1			END STIFFENER MK. V2			DOUBLE STRUT		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
COLUMN END																					
CHF67-5661	B	A242	2"x1"x.25	1'-1"	6"-1"	A36	1.09	6'-3 1/2"	2	A36	1.09	2'-4 5/8"	A38	.78	4 5/8"	A38	1.09	2'-8 1/2"	D5a	A242	9	6'-3 1/2"

TRUSS DESIGNATION	BEARING ANGLES				WEB	DIAGONAL "T" STRUT			VERTICAL "SV" STRUT			END STIFFENER MK. V1			END STIFFENER MK. V3			WEB "WC"				WEB "WT"			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
COLUMN END																											
CHF67-5662	B	A242	2"x1"x.25	1'-0"	13'-10"	A242	1.14	6'-5 1/4"	5	A242	1.14	8'-4 1/4"	A242	1.14	4"	A242	1.14	7"									

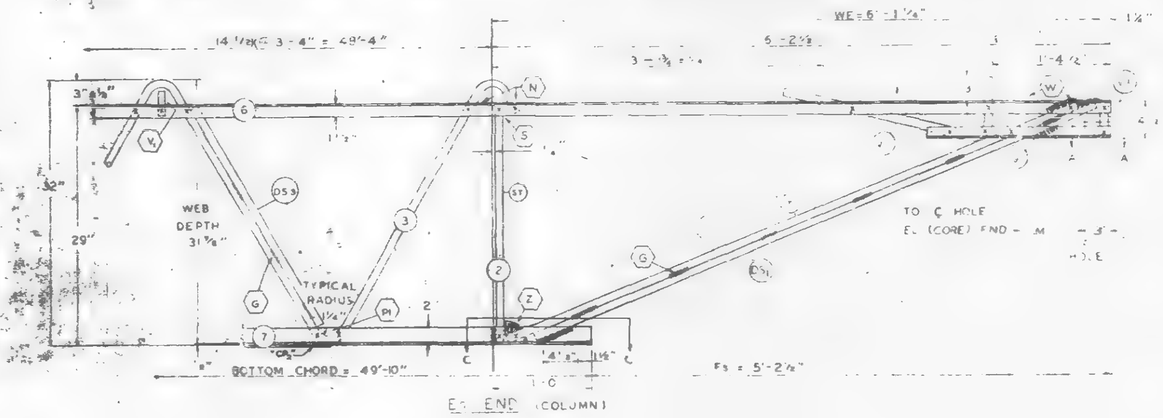
CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TO USE

CL	CL-2	CL-3	CL-4	FS
9'-8"	22'-10 1/8"	36'-2 3/8"	49'-6 1/32"	52'-2 1/2"



TRUSS ELEVATION

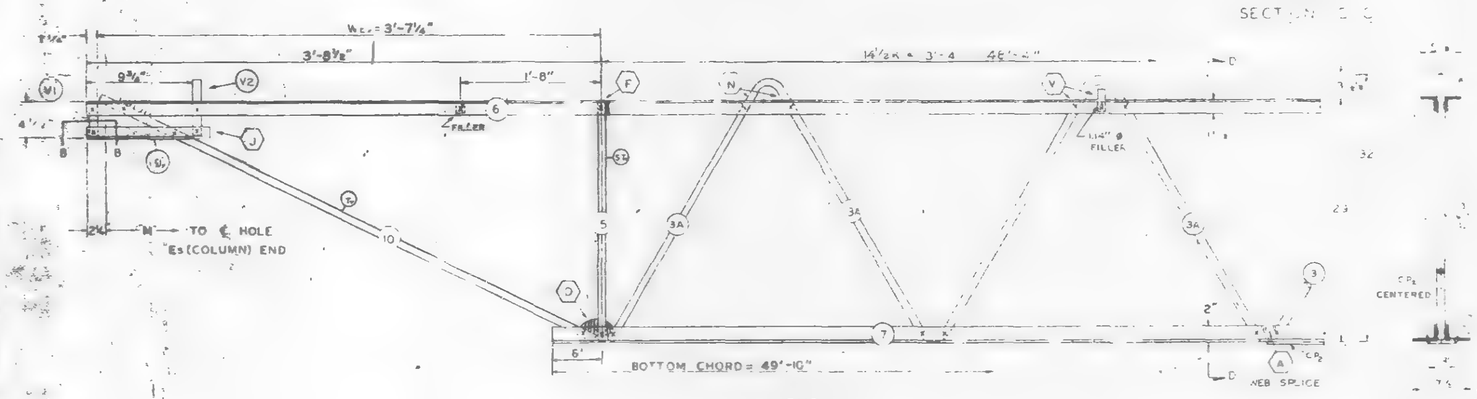
FABRICATION REQUIREMENTS	DESIGN	AS BUILT
CAMBER AT MIDSPAN	-2"	0 5/16"
DESIGN DEPTH	29"	0 1/4"
PANEL AT	3'-4"	0 1/4"
OVERALL LENGTH	58'-3"	0 3/8"
WEB DEPTH	31 7/8"	0 1/4"



ALL PANEL POINTS RESISTANCE WELDED x
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292.
AND ST28

CHORD PLATE DETAILS SHOWN ON SHEET ST28C
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6

DAMPING UNIT CONNECTION
PLATE ATTACHED TO B TTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY
		AB-1	10-19-68
		AB-52	2-15-68
		AB-53	7-22-68
		AB4	9-1-68
		AB3.2	1-3-68
		AB4.505	10-20-67

REFERENCE DRWGS

PAINTING
LACLEDE STEEL COMPANY
RED PRIMER

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T8M	3&3	A242	2"x1½"x.3"	58'-3"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	78'-3¾"	12½2@ 3'-4" = 40'-8"	11	1.09	57'-9¾"	3	1.09	3"	CP2	A36	⅛x8	40'-0"	DS2	A242	.75	2'-6¾"
									3A	A242	1.14	78'-5½"	2 @ 3'-4" = 6'-8"													

TRUSS DESIGNATION	E3 END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T8M	S&S	9	A242	2"x1½"x.25	2'-3"	6'-1⅛"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9⅛"	DS1	A242	.92	6'-3⅛"

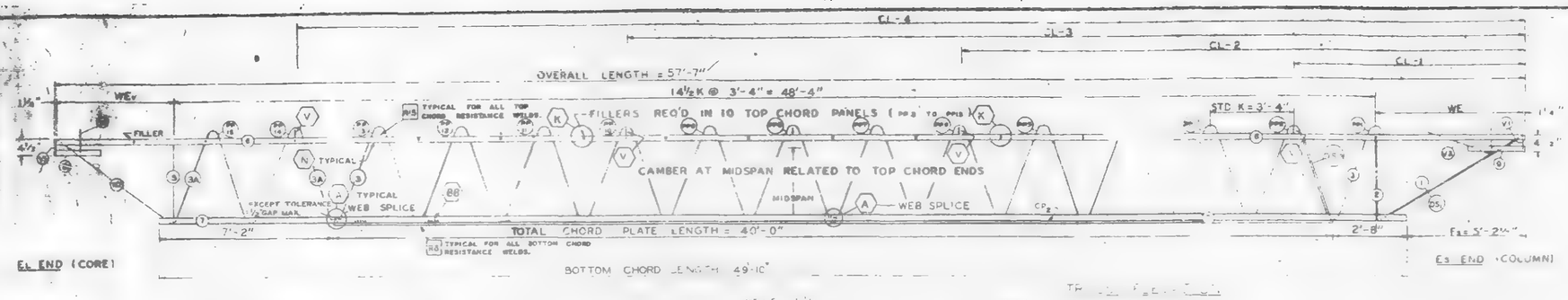
CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2¼"

TRUSS DESIGNATION	E3 END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	WEB "W" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "W1" MK.	TYPE STEEL	PCS	DIA	LENGTH
C32T8M	S&S	9	A242	2"x1½"x.25	1'-0"	3'-7⅛"	4	A242	1.14	4'-2¾"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅝"	A242	1.14	2'-7⅛"									

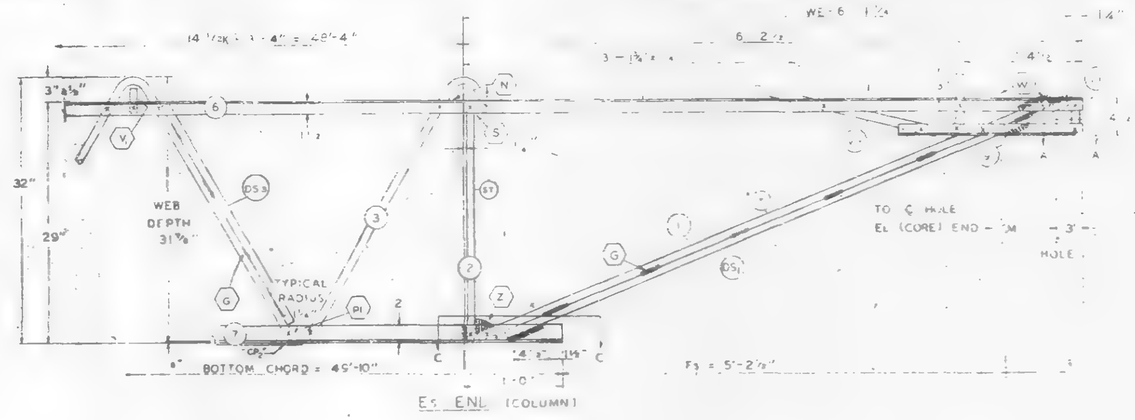
STEEL TRUSS DETAILS
FOR
TRADE CENTER N.Y.C.
OF THE PORT OF NEW YORK AUTHORITY

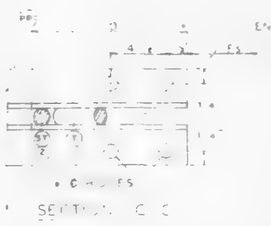
FLOOR TRUSS C32T8M 58'-3" OVERALL
WORLD TRADE CENTER TOWER A-8

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON ILLINOIS
DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONDS DATE 1/15/69
DRAWN BY DATE APRIL 15, 1969
APPROVED FOR FABRICATION BY FOR FABRICATION DATE
CHECKED BY TM CHURA DATE APRIL 15, 1969 IN CHARGE OF PROD
DETAILED BY CORE & SEE LO FABRICATION CONT NO W 221 SHEET ST28A



FABRICATION REQUIREMENTS		
	RESULTS	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL [illegible]	3'-4"	± 1/16"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	3 7/8"	± 1/4

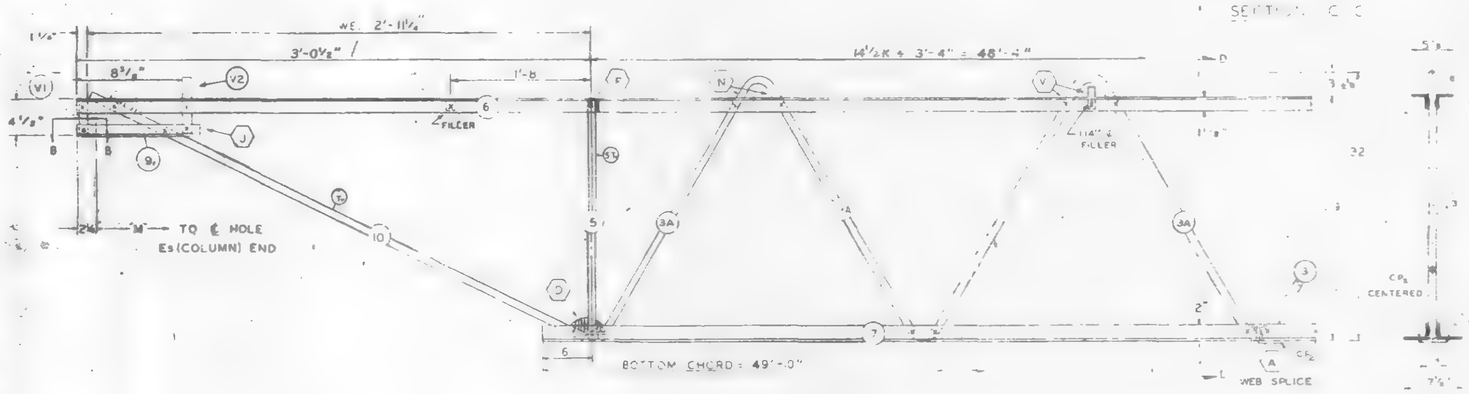




ALL PANEL POINTS RESISTANCE WELDED *
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD - WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
* SISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY

REF DRWGS:

7-AB1-5	10-15-68
7-AB1-52	7-15-68
7-AB1-53	7-22-68
7-AB4	8-1-68
7-AB1-2	7-3-68
7-AB4-503	10-28-67

LACLEDE ELECTRIC COAT RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8I	17 6	A242	2"x1"x ¼	57'-7"	7	A36	3"x2"x.33	49'-10"	3 3A	A36 A242	1.09 1.14	7'-3 3/4 12'-5 1/2	12½K 3'-4" 4'-8" 2 @ 3'-4" 6'-8"	11	1.09	57'-1¾"	1 1	1.09 1.41	3"	CP₂	A36	½"x3"	40'-0"	DS1	A242	.75	2'-6¾"

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LEN TH
C32T6P 577	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3 1/16"	2	A36	1.09	2'-4 5/8"	A36	1.09	4 5/8"	A36	1.09	2'-9 1/8"	DS1	A242	.92	6'-3 1/16"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5' 2⅞"

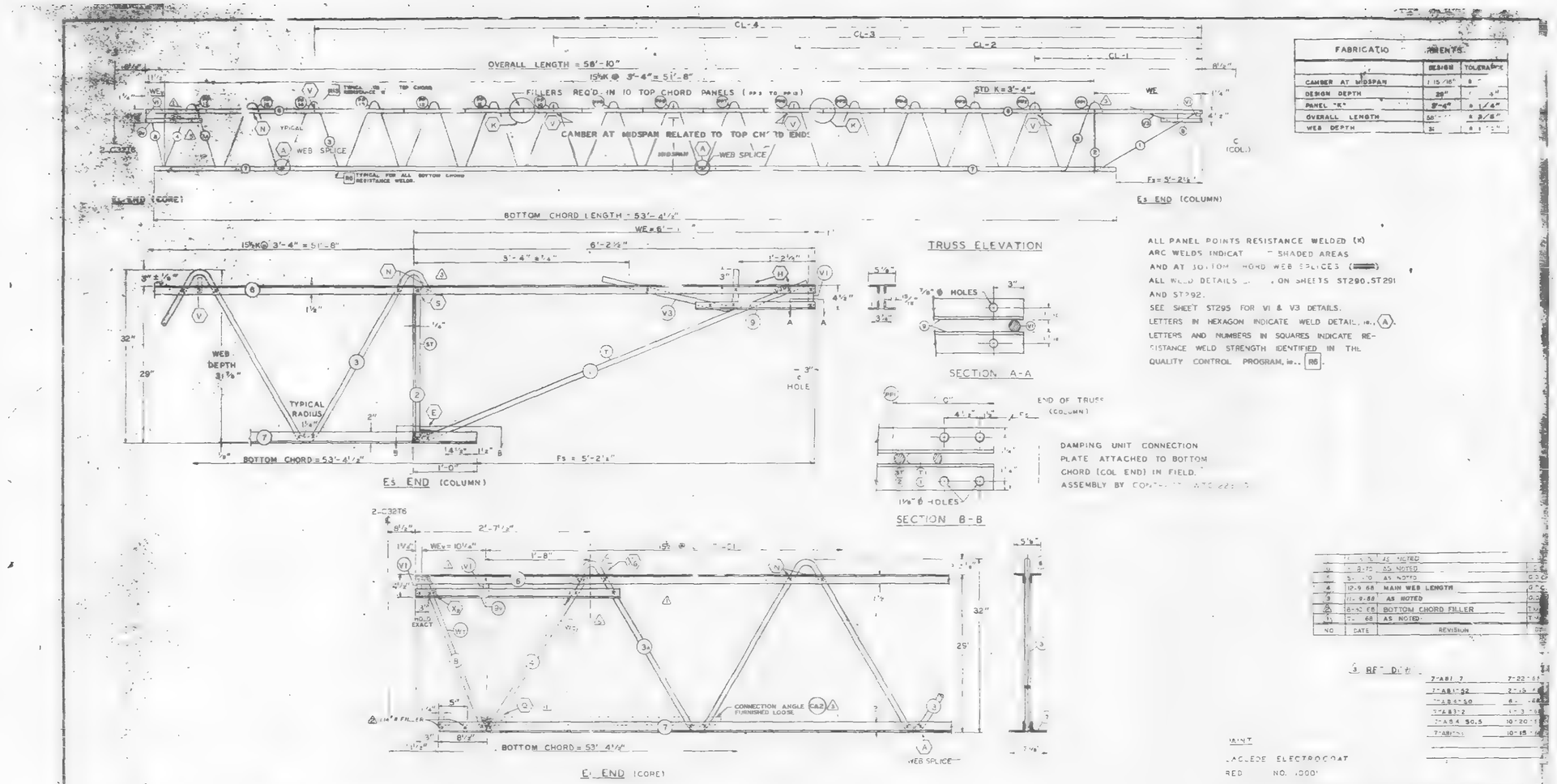
TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T6P 577	9	A242	2"x1½"x.25	10'-¼"	4'-7"	10	A242	1.14	3'-8½"	5	A242	1.14	2'-4⅞"	A242	1.14	4"	A242	1.14	7"	—	—	—	—	—	—	—	—	—	—	—	—

TEE TRUSS DETAILS
SEP 57'-7" SPAN
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR PCI/FCI
DATE 4/25/69
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATION
DATE
STAMPED BY AC [illegible]

DESIGN DRAWING NO 7-AB1-5 7-AB1-2 PLATE
DRAWN BY [illegible] DATE APRIL 15, 1969
CHECKED BY T.M. CHURA DATE APRIL 15, 1969
FABRICATION CONT NO 221
IN CHARGE OF PROD DEV
SHEET NO. ST290P



FABRICATION TOLERANCES		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	±
DESIGN DEPTH	29"	± ¼"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31	± 1/8"

NO	DATE	REVISION
5	12-9-68	AS NOTED
4	12-9-68	MAIN WEB LENGTH
3	11-9-68	AS NOTED
2	10-30-68	BOTTOM CHORD FILLER
1	7-1-68	AS NOTED

REF DWG #	
7-A81.7	7-22-65
7-A81.52	2-15-66
7-A84.50	6-[illegible]-68
7-A83.2	11-3-[illegible]
7-A84.50.5	10-20-[illegible]
7-A81.[illegible]	10-15-[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	"M" ⅞" ø HOLES	CONNECTION FILLER NO.	DIA.	LENGTH	MK	CHORD PLATE TYPE STEEL	SIZE	LENGTH
C32T9 - 5810	6	A242	2"x1½"x.31"	58'-10"	7	A36	3"x2"x.33"	53'-4½"	3	A36	1.08	58'-8½"	13/22R @ 3'-4"=51'-8"	13	1.08	—	4	1.09	3"	—	—	—	—
									3A1	A242	1.14	4'-2"	1/2R @ 3'-4"=3'-0"	2	1.14								

COLUMN END Es	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T9-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	1¼"	6'-5"	2	A36	1.09	2'-4⅜"	A242	1.14"	4'-3⅜"	A242	1.14"	2'-9'-8"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10⅛"	36-2½"	49'-6½"	5'-2"

CORE Es	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO	MK	TYPE STEEL	SIZE	LENGTH
	C32T9-5810	7	A242	2"x1½"x.31"	3'-2"	10¼"	5	—	—	—	—	—	—	—	A242	1.14"	4'-[illegible]"	—	—	—	4	A242	1	1¼	2'-0"	8	A242	1	1¼"	2'-5⅛"	2	CA2	A242	2"x1½"x.37"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: [illegible] FOR P.O.N.Y.A. DATE

APPROVED FOR FABRICATION BY: [illegible] FOR FABRICATOR DATE

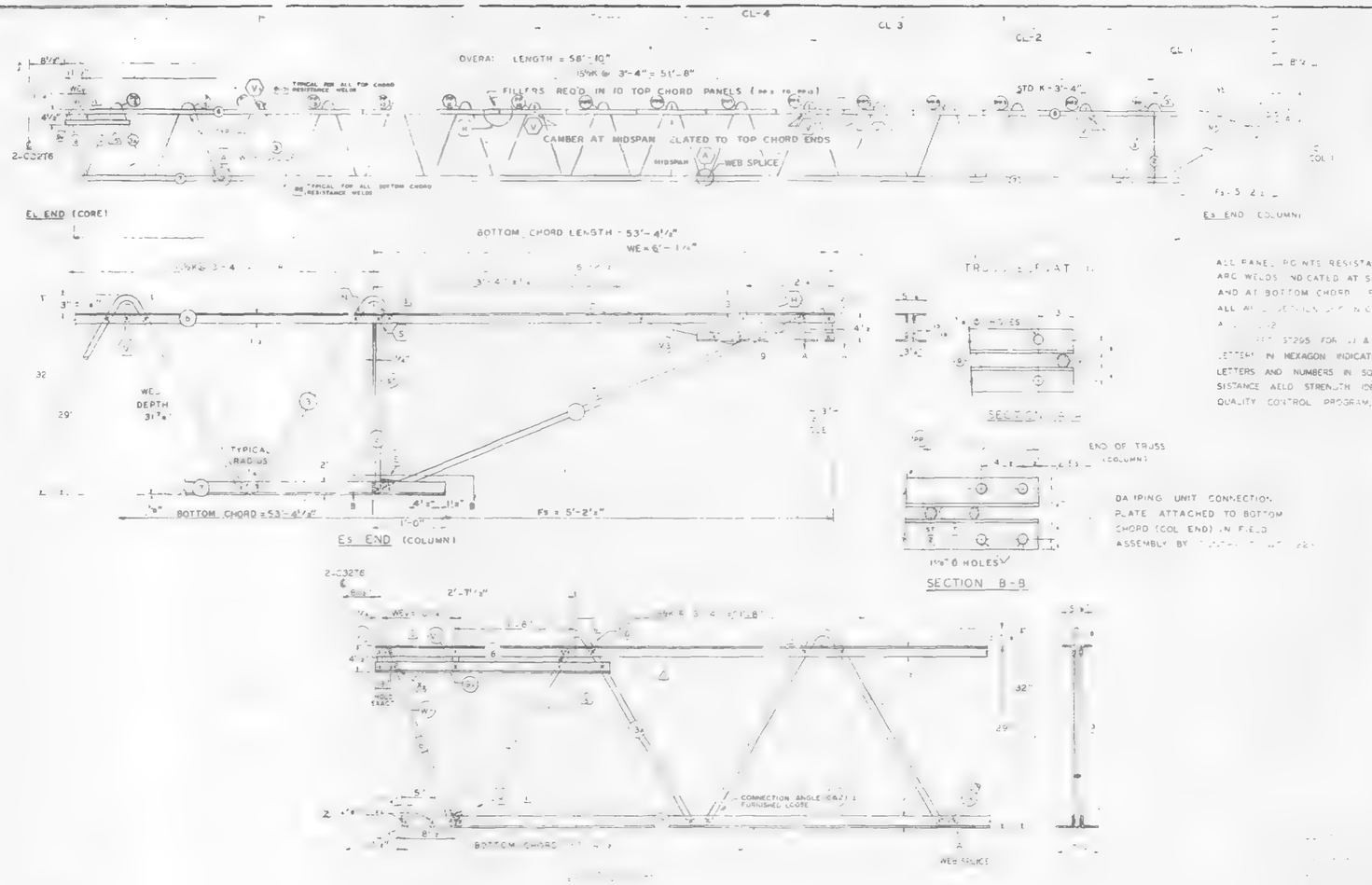
DETAILED BY: A.G. [illegible]

DESIGN DRAWING NO 7-A81.7 7-A82-8 PLATE

DRAWN BY S.L. DATE MAY 27, 1968

CHECKED BY J.D. [illegible] IN CHARGE OF DATE MAY [illegible] KEY

FABRICATION SHOP DRAWING NO. W.T.C.



FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/64"
OVERALL LENGTH	58'-10"	± 1/8"
WEB DEPTH	31 3/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED
AND AT BOTTOM CHORD ES SPLICE
ALL ARC WELDS SHOWN ON DWG
A 572
SEE ST295 FOR W & V DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, REF. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, REF. (R6).

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY [illegible] SEE ST22

	AS NOTED	
4	2 9 68	MAIN WEB LENGTH
3	2 6 68	AS NOTED
2	8 3 68	BOTTOM CHORD SPLICE
1		AS NOTE
NO	DATE	REVISION

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WL	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WW	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	"N" HOLES	CONNECTION FILLER NO.	DIA.	LENGTH	MK	CHORD PLATE TYPE STEEL	SIZE	LENGTH
C32T9 58'0	6	A242	2 [illegible]	[illegible]	7	A36	3 [illegible]	33	53'-6 1/4"	33	3	A36	1.09	[illegible]	[illegible]	19	1.09		4	1.09	3"				
												A572				6	1 1/4								

COLUMN END	EB END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK VI TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T9 5810	9	A242	2"x1 1/2"x 25"	1'-10"	6'-1 1/4"	1	A242	4"	8'-5"	2	A36	.59"	2'-4 5/8"	A242	1/4"	4 5/8"	A242	1/4"	2'-9"				

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK VI TYPE STEEL	DIA	LENGTH	V2	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO	MK	TYPE STEEL	SIZE	LENGTH
		C32T9 5810	9	A242	2"x1 1/2"x 25"	3'-2	10 1/4"									A242	1/4"	4 5/8"					4	A242	1	1 1/4	2'-5 1/4"	8	A242	1	1 1/4"	2'-5 3/4"	2	CA	A242	2"x 1 1/2" x 37"	4'-4"

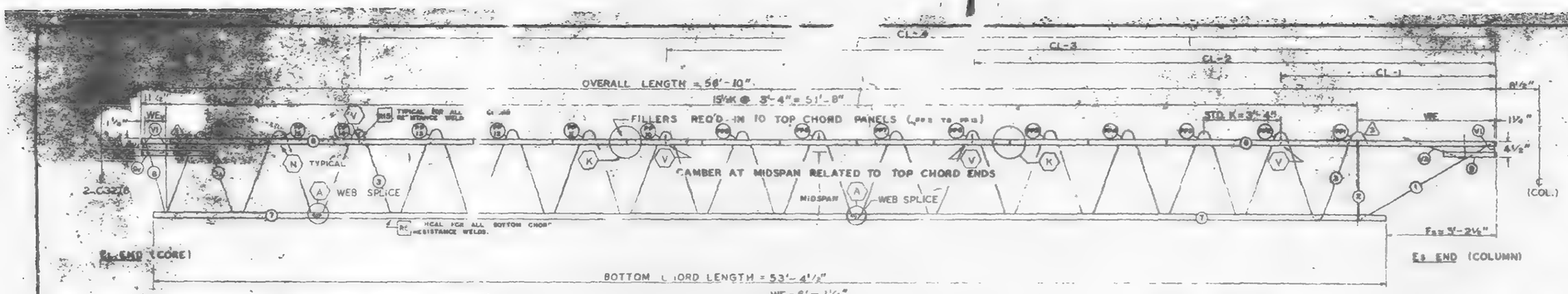
DETAILED BY:	A.G. WEBER

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T: 58'-10" OVERALL

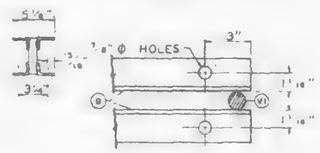
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY	LACLEDE STEEL COMPANY
FABRICATED AT	MADISON, ILLINOIS
DESIGN DRAWING NO	T-AB1-7 T-AB3-2 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE [illegible]
DRAWN BY	[illegible]
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE MAY 27, 1968
CHECKED BY J.J. PAUL	DATE MAY 27, 1968
IN CHARGE OF PROD. DEV.	
FABRICATION CONT. NO.	W T C 221
SHEET NO	ST209

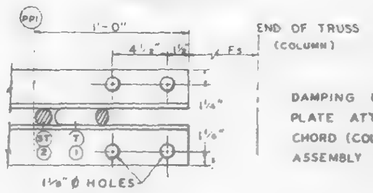


FABRICATION REQUIREMENTS		
	DESIGN	TOL. ±
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
TRUSS DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 5/16"	± 1/4"

TRUSS ELEVATION



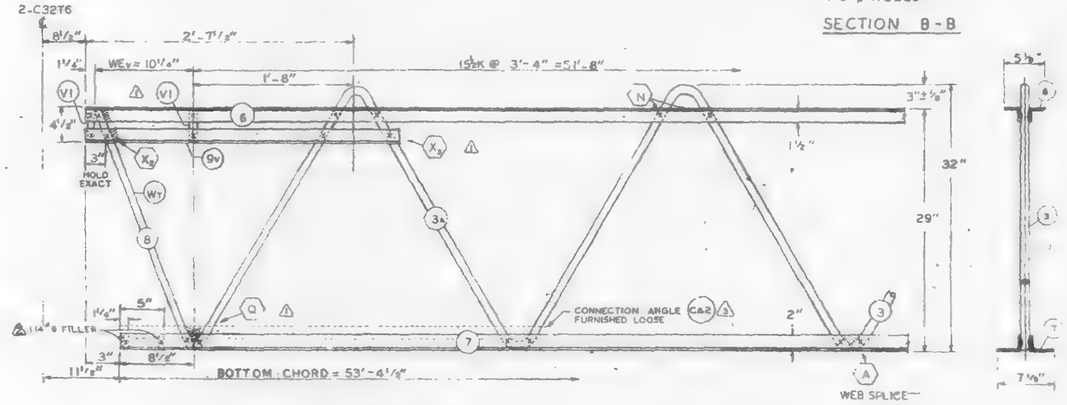
SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■■■)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



E1 END (CORE)

NO.	DATE	REVISION	BY
4	12-9-68	MAIN WEB LENGTH	G.D.C.
3	11-19-68	AS NOTED	G.D.C.
2	8-30-68	BOTTOM CHORD FILLER	T.M.C.
1	7-1-68	AS NOTED	T.M.C.

(2) REF. DRWG.

7-AB1-7	7-22-68
7-AB1-52	2-15-68
7-AB3-50	8-1-68
7-AB3-2	1-3-68
7-AB4-30.5	10-20-67
7-AB1-53	10-16-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES		CONNECTION FILLER			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	(3) LENGTH	NO OF R	NO	DIA		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T9 - 5810	6	A242	2"x1⅛"x.31"	58'-10"	7	A36	3"x 2" x .33"	53'-4½"	3 3A	A36 A242	1.09 1.12	84'-6½" 12'-5½"	13½ @ 3'-4" = 45'-0" 2 @ 3'-4" = 6'-8"	15 2	1.09 1.14		4	1.09	3"	—	—	—	—

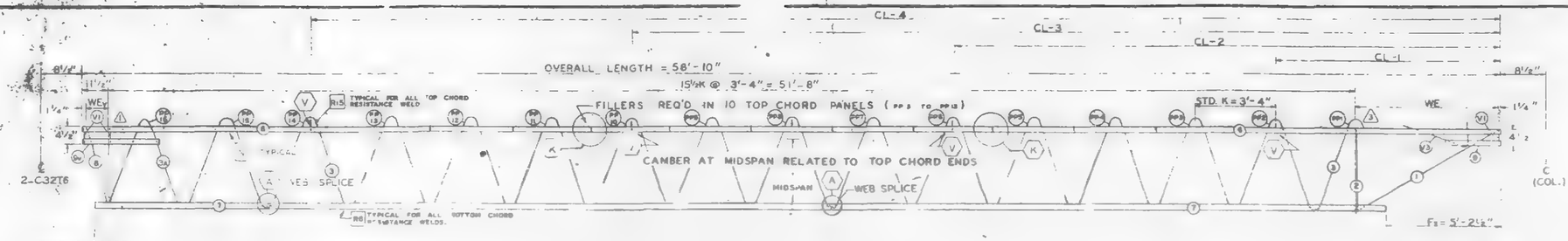
	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	(3) LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T9 - 5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.14	6'-5"	2	A36	.09	2'-4⅜"	A242	.14"	4⅜"	A242	.14	2'-9"	—	—	—	—

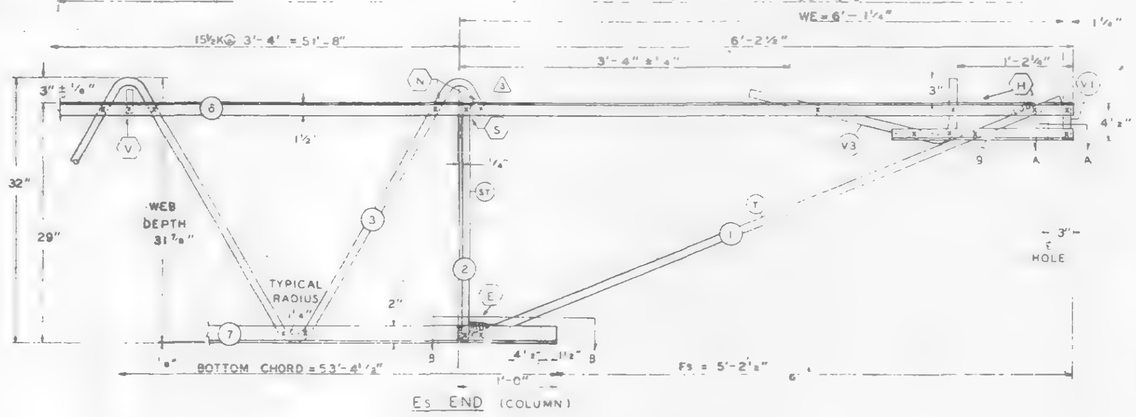
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS					
CL-1	CL-2	CL-3	CL-4	F5	
9'-5½"	22'-0¾"	35'-2"	49'-6½"	5'-2"	

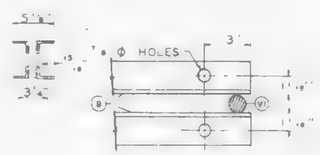
	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "SV" STRUT				VERTICAL "ST" STRUT				END STIFFENER						WEB "WC"					WEB "WT"				CONNECTION ANGLES (FURNISHED LOOSE)				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS.	DIA.	LENGTH	NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	C32T9 - 5810	9v	A242	2"x1½"x.31"	3'-2"	10⅛"	—	—	—	—	—	—	—	—	A242	1¼"	4'-3⅞"	—	—	—	—	—	—	8	A242	1	1¼"	2'-5⅝"	2	CA2	A242	2"x 1½"x 37"	4'-4"				

STEEL TRUSS DETAILS			
FOR			
WORLD TRADE CENTER - N.Y.C			
FOR			
THE PORT OF NEW YORK AUTHORITY			
FLOOR TRUSS C32T9 - 58'-10" OVERALL			
WORLD TRADE CENTER TOWERS A-B			
FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-7 7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 12/12/68	DRAWN BY: [illegible] DATE: MAY 27, 1968	
APPROVED FOR FABRICATION BY: [illegible] FOR FABRICATOR	DATE	CHECKED BY: J.R. [illegible] DATE: MAY 27, 1968	IN CHARGE OF DRWG. DEV.
LACLEDE STEEL DETAILED BY: [illegible]		FABRICATOR CONT. NO. W.T.C. 221	SHEET NO. ST209

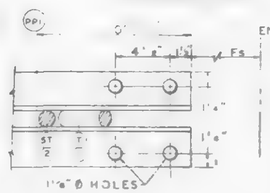




TRUSS ELEVATION



SECTION A-A

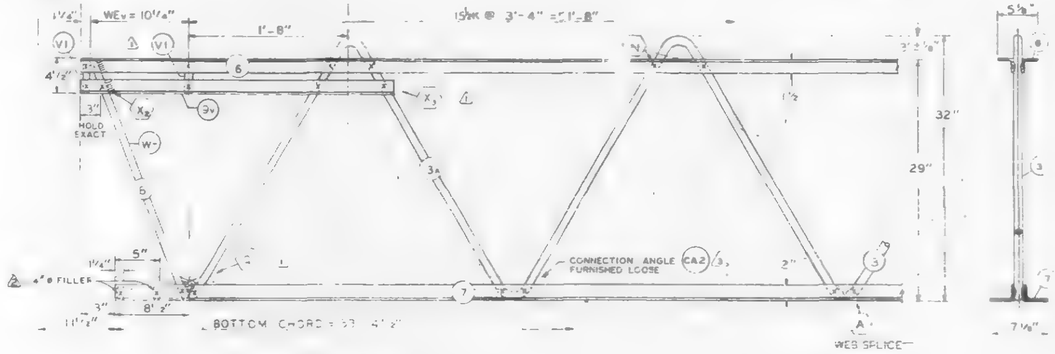


SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR VI & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.6

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± ⅜"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH		± 3/1
WEB DEPTH	31 7/8"	± 1



NO	DATE	REVISION	BY
3	11-19-68	AS NOTED	G.A.
2	8-30-68	BOTTOM CHORD FILLER	T.M.C.
1	7-1-68	AS NOTED	T.M.

3. REF. DRWG.

7-AB1-7	7-22-68
7-AB1-32	8-15-68
7-AB4-50	8-1-68
7-AB3-2	1 3 68
7-AB4 50.5	10 20 68
7-AB1-53	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	C to C HOLES		CONNECTION FILLER		CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T9 - 5810	6	A242	2"x1½"x.31"	58'-10"	7	A36	3"x2"x.33"	53'-4½"	3	A36	1.09	48'-6⅛"	13"@2", 3'-4"@45, 6"@4	1	1.09		4	1.09	3"				
									33	A242	1.14	1'-5"	4@3'-4", 6"@4		1.14								

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK VI TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T9 - 5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	1¼"	6'-5"	2	A36	1.09"	2'-4⅞"	A242	1¼"	4⅜"	A	1¼"	2'-9⅛"	7	—	—	—

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "ST" STRUT				VERTICAL "ST" STRUT				END TIFFENER										WEB "WC"					WEB "WT"					CONNECTION ANGLES (FURNISHED LOOSE)					
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK VI TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	NO	3 MK	TYPE STEEL	ANGLE SIZE	LENGTH
		C32T9 - 5810	9V	A242	2"x1½"x.3"	3'-2"	10¼"	—	—	—	—	—	—	—	—	A242	1.14"	4⅜"	—	—	—	—	—	—	8	A242	1	1.14"	2'-5¾"	2	CA2	A242	2"x1½"x37"	4'-4"					

CHECK DIMENSION FOR TRUSS FAB

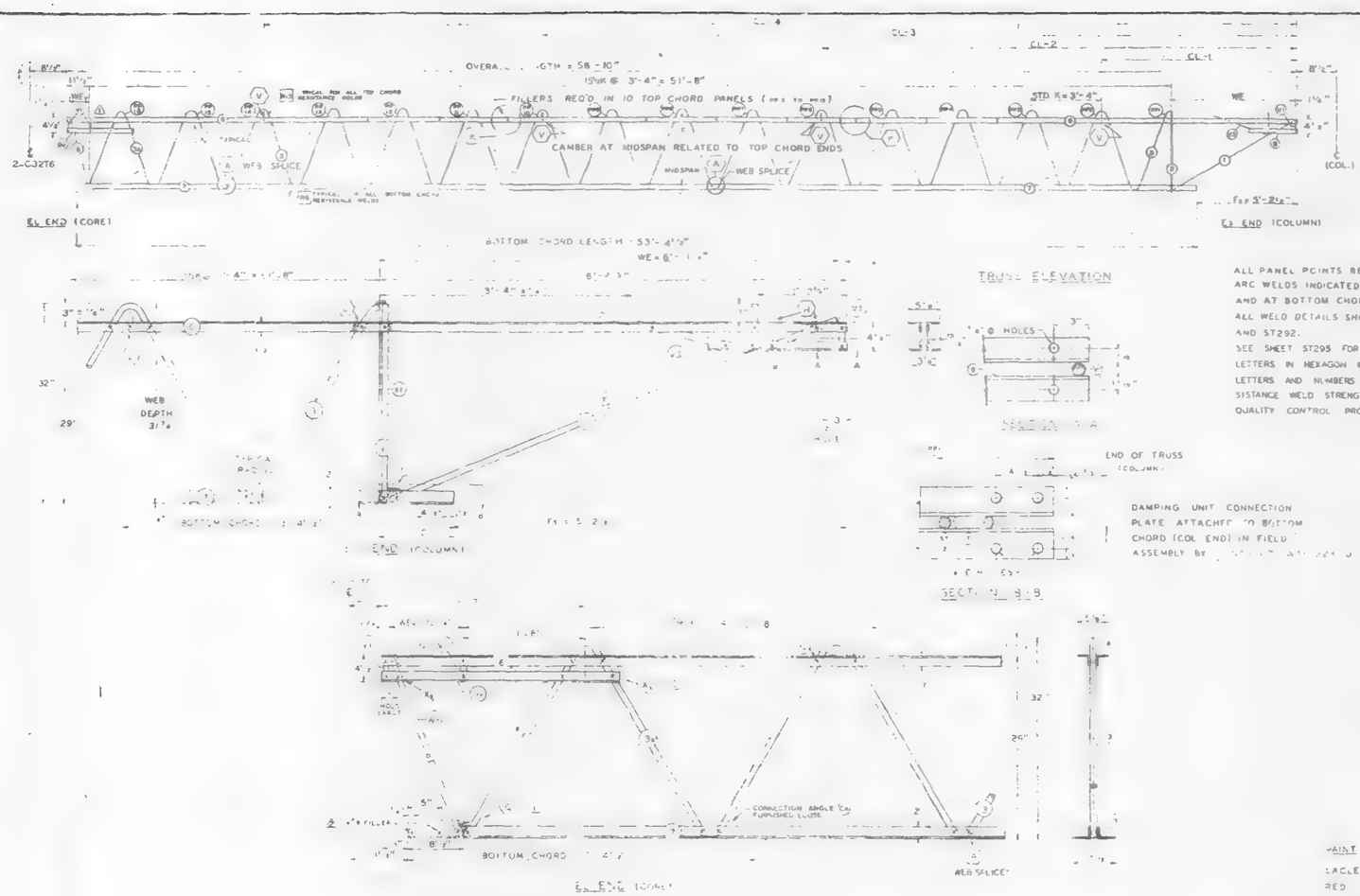
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36-2½"	45 6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 - 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-7 7-AB1-2 PLATE
APPROVED FOR FABRICATION BY PA FOR PONYA DATE 12/6/68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DRAWN BY: [illegible] DATE MAY 27, 1968
CHECKED BY: A.B. MIN IN CHARGE OF DRWG. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. WTC 221
SHEET NO ST209



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "R"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 5/8"
WEB DEPTH	31 1/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6

NO	DATE	REVISION	BY
1	7-68	AS NOTED	TMC
A	10-68	BOTTOM CHORD FILLER	TMC

REF. DRWG.

1-AB1-7	4-15-68
7-AB2-SR	8-15-68
7-AB4-3&4,9,R	10-1-68
7-AB3-7	1-68
7-AB4 33,3	10 10-68
7-AB1-33	4 1-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	CHECKING "M" MEMBERS NO	DIA	CONNECTION ANGLES LENGTH	MK	CHCK. PLATE TYPE STEEL	W	LENGTH
C32T9 58'-10"	6	A242	2 x 11"x 8"x .31	54'-10"	7	A36	2 x 8" x .33	53'-4 1/2"	3	A36	LOS	40'-1 1/2"	13	3/16		4	1.09	3"				
									4	A36	LOS	13'-3 3/4"	2	3/16								
									5	A36	LOS	2'-4"	2	3/16								
									6	A36	LOS	2'-10"	2	3/16								

COLUMN END ES	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V2	TYPE STEEL	DIA	LENGTH	MK V3	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
END	C32T9 58'-10"	9	A242	2"x11"x8"x.25	1'-10"	6'-1 1/4"	1	A242	6"	6'-5"	2	A36	8"	2'-7 3/8"	1	A242	4"	4 5/8"	4	A242	4"	2'-9"				

CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V2	TYPE STEEL	DIA	LENGTH	MK V3	TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
END	C32T9 58'-10"	10	A242	2"x8"x.25	3'-2	10 1/4"									1	A242	1 1/16"	4 5/8"										8	A242	1	1 1/16"	2'-5 3/4"	2	CA	A242	2"x 1'-2"x.37"	3'-4"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	C.4	E3
	22'-10"	39		2'-1

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

APPROVED FOR FABRICATION BY FOR PONYA — DATE 9/4/68

DETAILED BY A.C. WEBER

DESIGN DRAWING NO 7-AB3-2 PLATE

DRAWN BY

DATE MAY 27, 1968

CHECKED BY

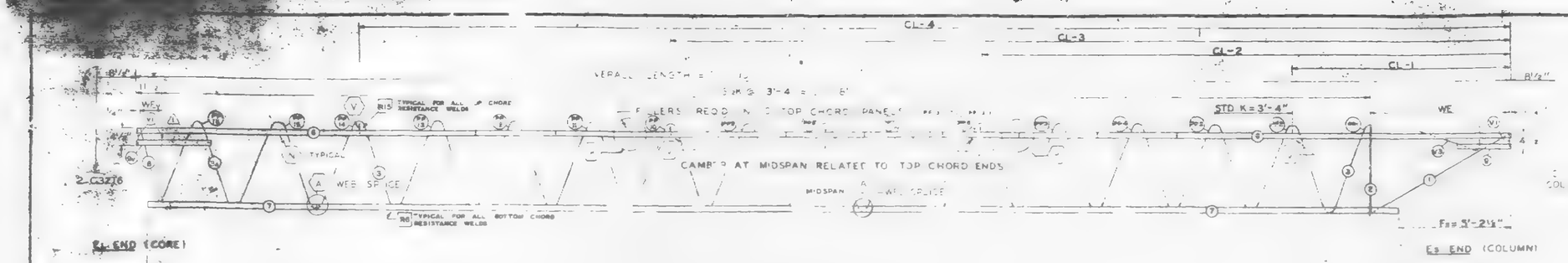
DATE MAY 27, 1968

IN CHARGE OF

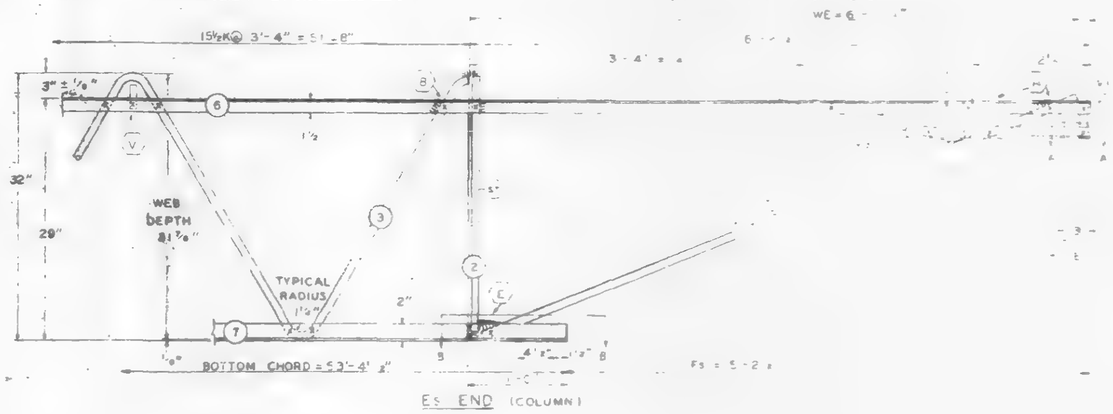
FABRICATION SHOP

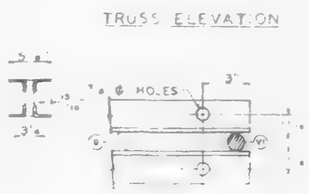
WTC 22

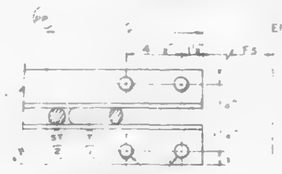
SHEET NO ST209



FABRICATION REQUIREMENTS		
	DEDUCT	TO ADD
CAMBER AT MIDSPAN	1 1/2"	1/8"
DESIGN DEPTH	"	± 1/4"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	58'-10"	± 3"
WEB DEPTH	31 3/8"	± 1/4"







ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST256
SEE SHEET ST___ FOR V1 & V3 DETAILS
LETTERS IN CIRCLES INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [P6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY ___

NO	DATE	REVISION	BY
4	7-1-68	AS NOTED	T.M.

REF. DRWG.

7-AB1-7	4-15-68
7-AB1-82	2-15-68
7-AB6-30 & 2W2	10-20-67
7-AB3-4	1-3-68
7-AB4-30.5	10-20-67
7-AM-53	4-3-68

FAINT
LAYOUT & EXTRUSOAT
REF NO DOC!

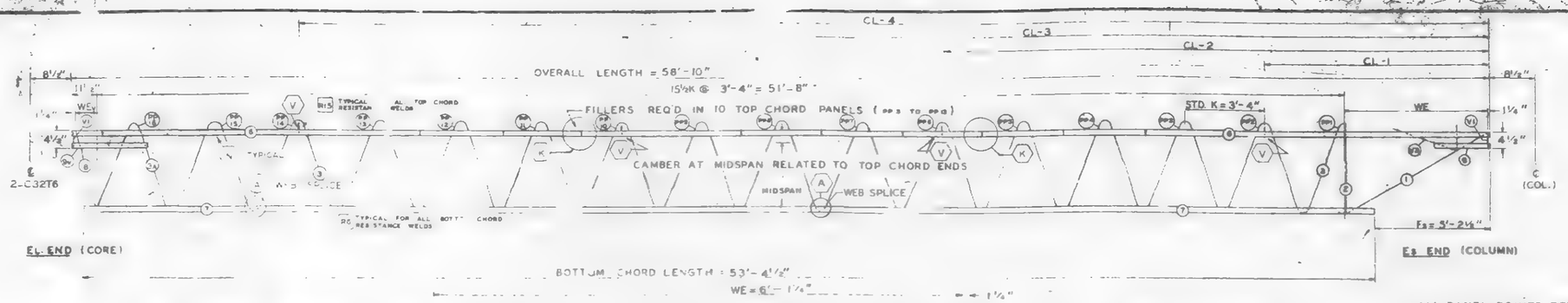
TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF P	NO L &	MISC PLATES MK	TYPE STEEL	SIZE	LENGTH
C32T9-58K	6	A242	2"x1 2"x.31"	58'-10	7	A36	3 x 2 x		3	A36	1.09	84"	13	3				

COLUMN END	DWG NO	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T9-58K	9	A242	2"x1 2"x.25"	1'-10"	6'-1¼"	1	A242	4	6'-5"	2	A36	1.09	2'-7⅝"	A242	4"	4⅝"	A24	4"	2'-9				

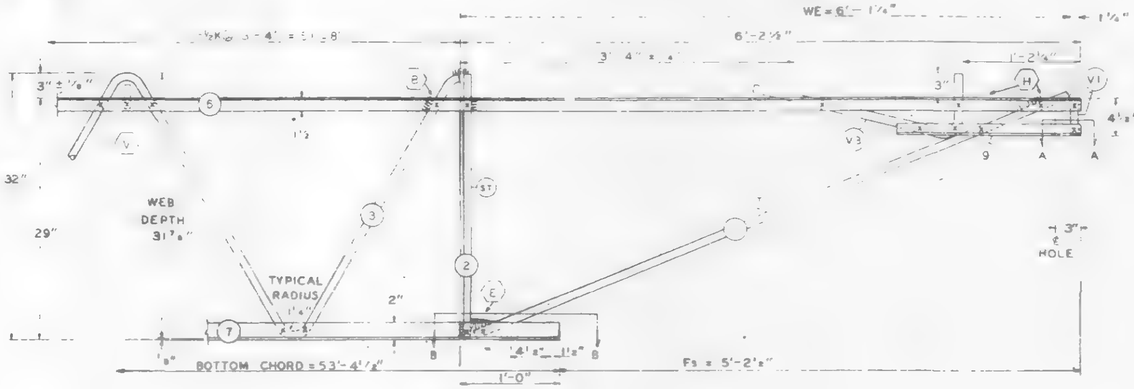
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10"	36'-2½"	49 6⅛"	5'-2⅜

WORK PT	DWG NO	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "S1" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "Wt" MK	TYPE STEEL	PCS	DIA.	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO.	MK	TYPE STEEL	ANGLE SIZE	LENGTH
		C32T9-58K	9	A242	2"x1 2"x.31"	3'-2"	10"	—	—	—	—	—	—	—	—	A242	1.14"	4⅝"	—	—	—	—	—	—	—	—	—	—	6	A242	1	1¼"	2' 5¾"	2	CA	A242	2"x 1½"x 37"	4'-4"

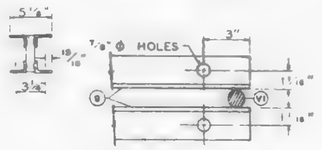
STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N Y C FOR THE PORT OF NEW YORK AUTHORITY	
TRUSS TYPE	58' 10" OVERA
WORLD TRADE CENTER TOWERS A - B	
FABRICATION BY	LACLEDE STEEL COMPANY
FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY	FOR P.O.N.Y.A. DATE 7/9/68
APPROVED FOR FABRICATION BY	FOR FABRICATOR DATE
DETAILED BY	A.C. WEBER
DESIGN DRAWING NO.	7-AB1-7 7-AB2-7 PLATE
DRAWN BY	E.K.S.
DATE	MAY 27, 1968
CHECKED BY	A.R. MAIL
DATE	MAY 27, 1968
FABRICATOR'S DWG. NO.	W.T.C. 221
IN CHARGE OF WORK BY	
SHEET NO	ST209



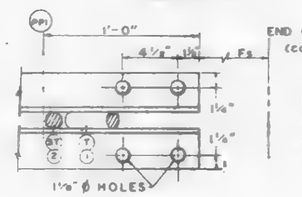
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	15 7/8"	± 3/8"
DESIGN DEPTH	32"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



TRUSS ELEVATION



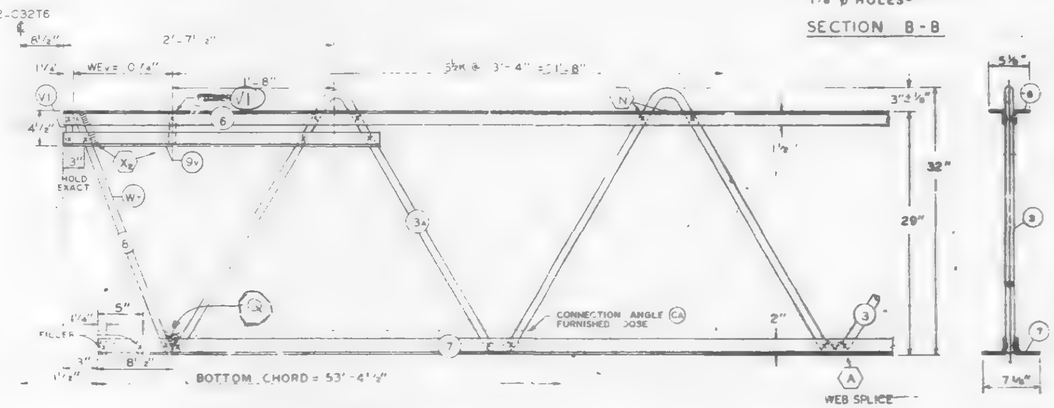
SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



REF. DRWG.

7-A81-7	4-15-68
7-A81-68	2-15-68
7-A84-S04.60.2	10-20-67
7-A83-2	1-3-68
7-A84-S0.5	10-20-67
7-AM-58	4-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF #	FILLER NO.	FILLER DIA	"M" ℄ HOLES	CONNECTION FILLER NO.	CONNECTION FILLER DIA.	CONNECTION FILLER LENGTH	CHORD PLATE MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH
C32T9-58IC	6	A242	2"x1 1/2"x.31	58'-10"	7	A36	2"x1 1/2"x.43	53'-4½"	3	A36	1.09	4'-8 7/8"	13	1.09"	—	4	1.09	3"	—	—	—	—
									4	A36	1.09	5'-3 7/8"											
									11	A242	1.09	5'-5 7/8"											

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
Es END	C32T9-58IC	9	A242	2"x1 1/2"x.31	1'-10"	6	4	A242	.43	5'-5"	2	A36	1.09	2'-7 7/8"	A242	1.14"	4'-8 7/8"	A242	1.14"	2'-9 1/8"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LE	STF	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "Ws" MK	TYPE STEEL	PCS	DIA.	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
	El END	C32T9-58IC	8	A242	2"x1 1/2"x.31	4'-4"	1	1	A242	.43	5'-5¼"	—	—	—	—	A242	1¼"	4'-0"	2	—	—	—	—	—	—	8	A242	1	1¼"	5'-5¼"	2	Ca	A242	2"x1 1/2"x.31	4'-4"

REVISIONS	

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A. DATE _____

APPROVED FOR FABRICATION BY _____ "FOR FABRICATOR" DATE _____

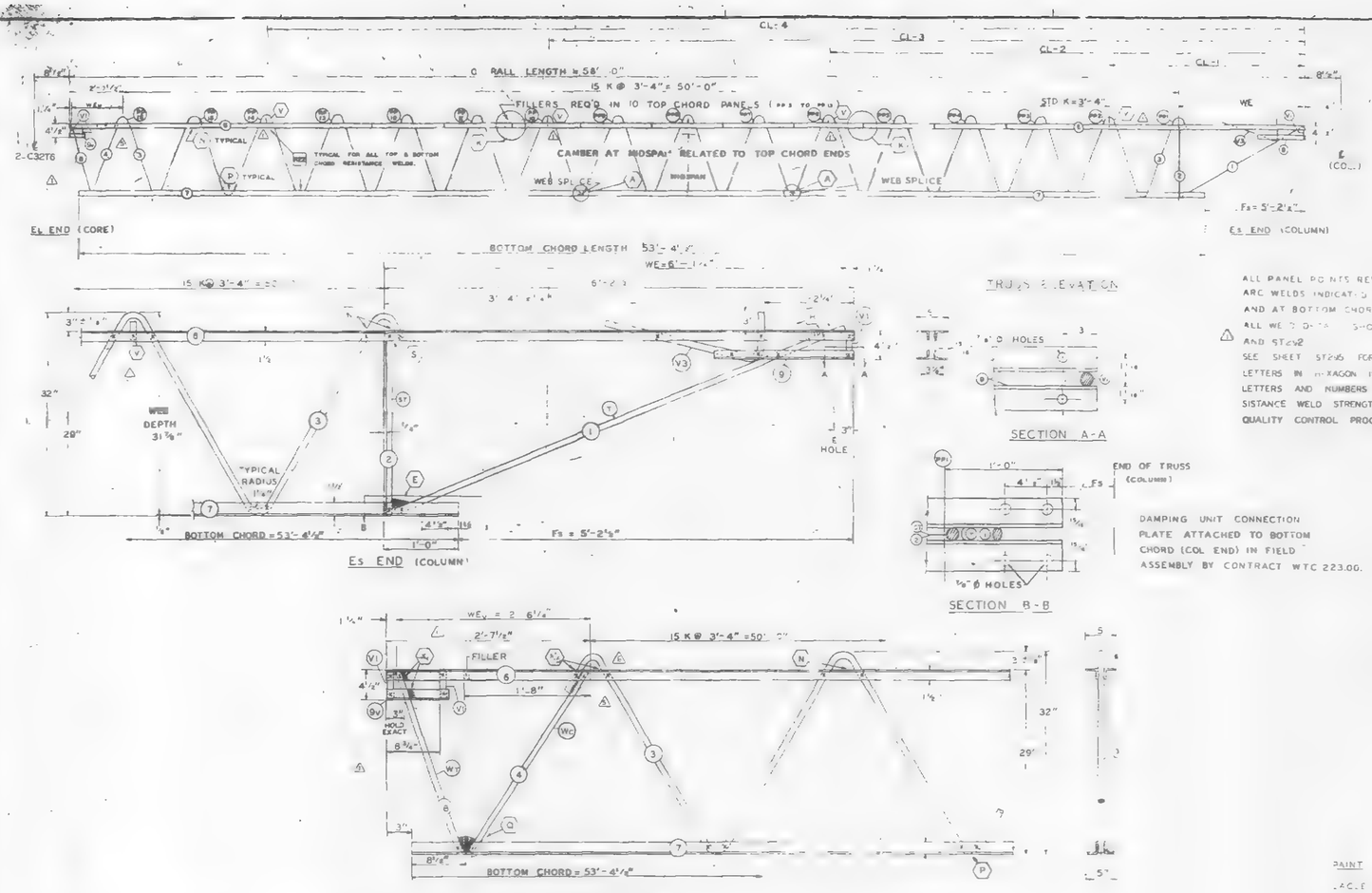
DESIGN DRAWING NO. 7-A81-7 7-A83-2 PLATE

DRAWN BY: _____ DATE: MAY 27, 1968

CHECKED BY: _____ DATE: MAY 27, 1968 IN CHARGE OF PROD. DEV.

PAGE NO. W.T.S. 22 SHEET NO. ST209

LACLEDE STEEL CO. DETAILED BY: _____



ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).

△ ALL WELD DATA NOT SHOWN ON SHEETS ST29^ ST29^ AND ST2v2

SEE SHEET ST2v5 FOR V1 & V3 DETAILS

LETTERS IN HEXAGON INDICATE WELD DETAIL REF. (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ref. R22.

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-0"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

NO	DATE	REVISION	BY
5	5-8-70	AS NOTED	[illegible]
4	[illegible]-1-70	AS NOTED	KDC
3	12-3-68	GENERAL	GDC
2	7-1-68	CAMBER-ON FILLER	TWC
1	6-27-68	AS NOTED	TWC
NO	5-27-68	AS NOTED	TWC

SEE [illegible]

[illegible]	7-22-68
[illegible]	7-15-68
[illegible]	8-1-68
[illegible]	7-22-68
[illegible]	7-22-68
2 A8[illegible]53	7-22-68

PAINT

LACLEDE STEEL COMPANY

RED NO. 880

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W" △				FILLER	"M" CC HOLES	CONNECTION FILLERS			CHORD PLATE			TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF R	NO	DIA	NO.	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH		
C32T10-580	8	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4⅛"	3	A242	.88"	94'-5"	15 @ 3'-4"=50'-0"	11	.88"	4	.96	3"	—	—	—	—		

COLUMN END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE_V	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
E	C32T10-580	9	A242	2"x1½"x.25"	1'-10"	6'-1½"	1	A242	.88"	6'-5"	2	A242	.88"	4'-4⅞"	A242	.88"	4⅝"	A242	.88"	8⅛"	—	—	—	—

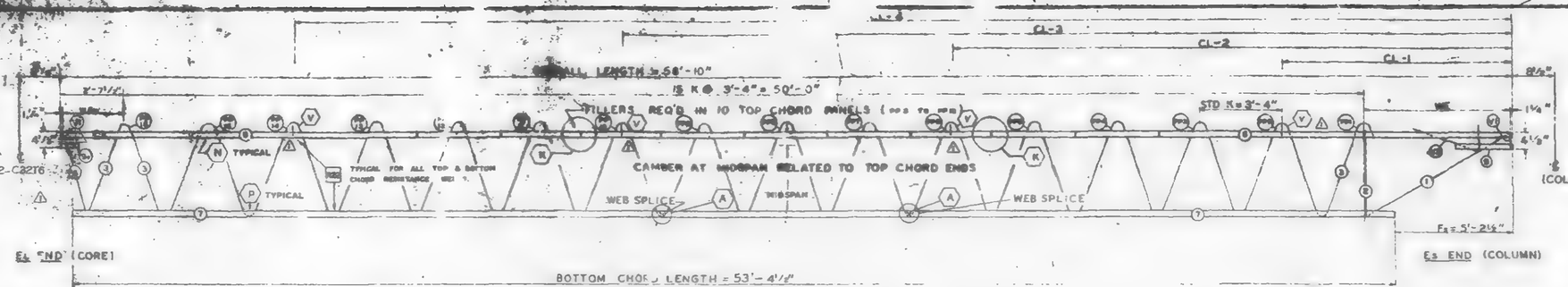
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2⅛"

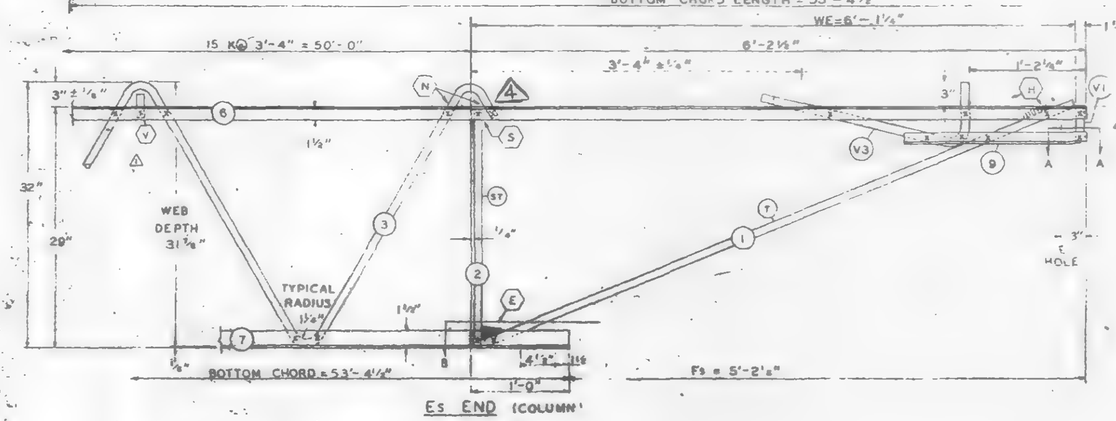
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE_V	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH (LE RE DI)	MK. V2 TYPE STEEL	DIA.	LENGTH	WEB "WC" △ MK.	TYPE STEEL	PCS.	DIA.	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS.	DIA.	LENGTH
E	C32T10-580	9v	A242	2"x1½"x.25"	10"	2'-6½"	—	—	—	—	—	—	—	—	A242	.92"	—	—	—	—	4	A242	1	.92"	2'-10"	8	A242	1	.92"	2'-5¾"

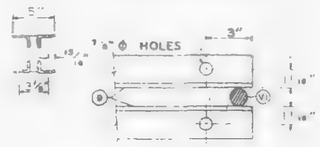
TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T10 58'-10" OVERALL	
WORLD TRADE CENTER TOWERS A B	
FABRICATION BY: LACLEDE STEEL COMPANY	
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. T-A8-8 T-A8-9 PLATE —
APPROVED FOR FABRICATION BY — FOR P.O.N.Y.A.	DATE 7/22/68 DRAWN BY L.K. DATE: FEB. 26, 1968
APPROVED FOR FABRICATION BY — FOR FABRICATOR	DATE — CHECKED BY: J.W. RAMP IN CHARGE OF DATE FEB. 28, 1968 PROD. DEV.
DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. WTC 221 SHEET NO. ST2T0



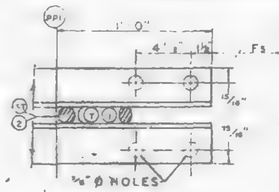
FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN ⚠	1¼"	± ⅜"
DESIGN DEPTH	32"	± 1/16"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	58'-10	± 3/8"
WEB DEPTH	N 29"	± 1/16"



TRUSS ELEVATION



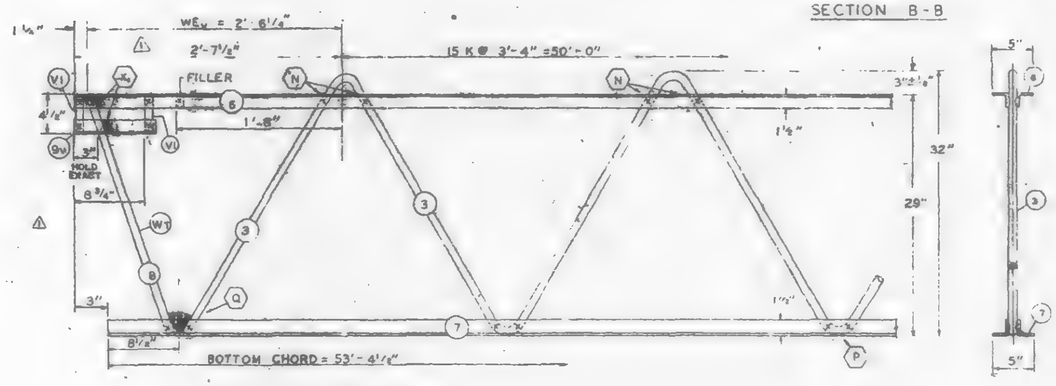
SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬)
⚠ ALL WELD DETAILS SHOWN ON SHEETS ST290, ST 291, AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



El END (CORE)

NO.	DATE	REVISION	BY
⚠	12-3-68	GENERAL	S.D.O.
⚠	7-1-68	CONNECTION FILLER	T.M.C.
⚠	6-27-68	AS NOTED	T.M.C.
⚠	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

7-A81-6	7-22-68
7-A81-52	7-15-68
7-A84-56	6-1-68
7-A83-2	1-3-68
7-A84-50.5	10-20-67
7-A81-53	7-22-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF ℄	FILLER NO	DIA	"M" ℄ HOLES	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T10-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4½"	3	A242	.92"	97'-0"	15½ @ 3'-4"=51'-8"	11	.82"	———	4	.92	.5"	—	——	——	——	

TRUSS DESIGNATION	EL END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T10-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1⅛"	1	A242	.98"	6'-5"	2	A242	.92"	4'-4⅞"	A242	.98"	4⅜"	A242	.75"	12'-9½"	—	——	——	——

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

TRUSS DESIGNATION	EL END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK.	TYPE STEEL	PL'S	DIA	LENGTH	WEB "W" MK.	TYPE STEEL	PCS	DIA	LENGTH
C32T10-5810	9v	A242	2"x1½"x.25"	10"	2'-1⅛"										A242	.92"	4⅜"												B	A242		.92"	2'-5¼"

REVISIONS

⚠	12-3-68	GENERAL	S.D.O.
⚠	7-1-68	CONNECTION FILLER	T.M.C.
⚠	6-27-68	AS NOTED	T.M.C.
⚠	5-27-68	AS NOTED	T.M.C.
NO.	DATE	REVISION	BY

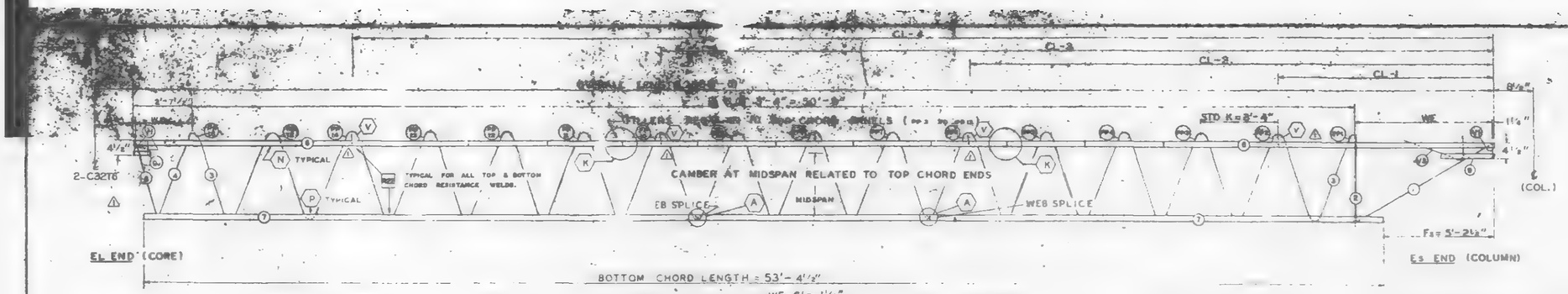
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL

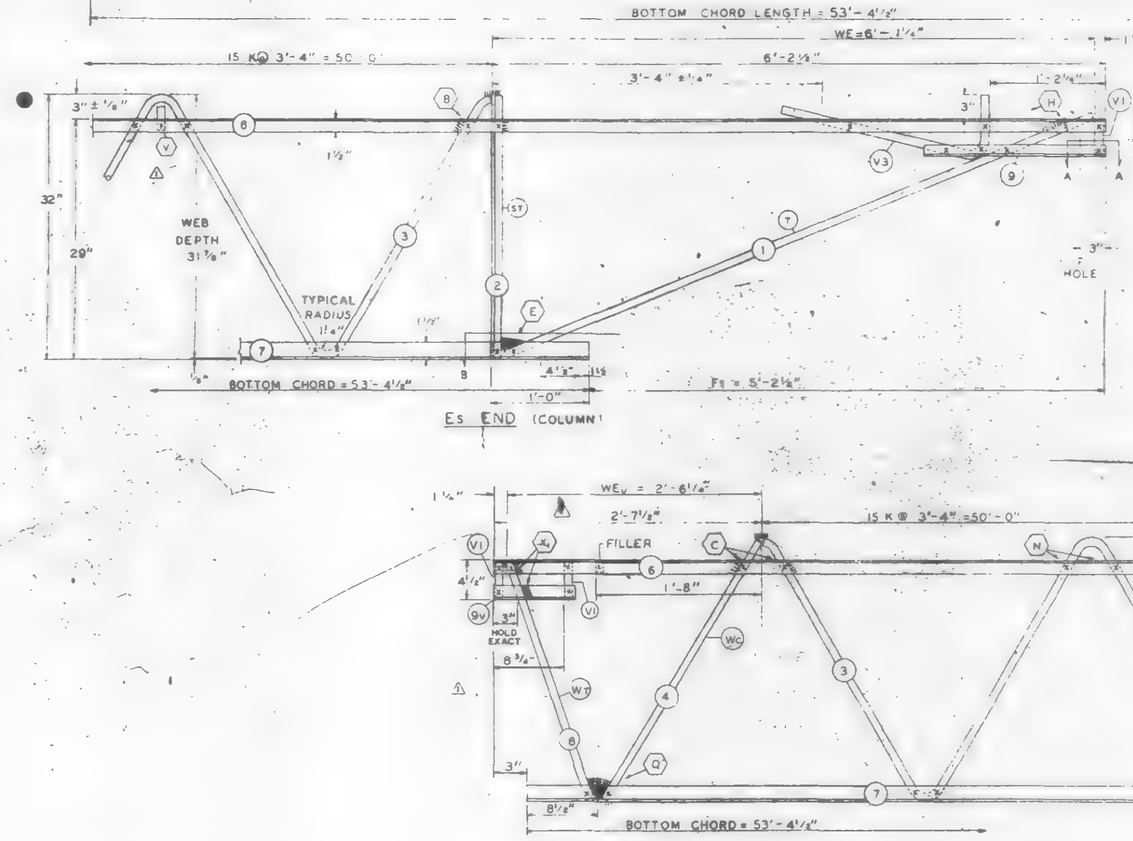
WORLD TRADE CENTER TOWERS A-B

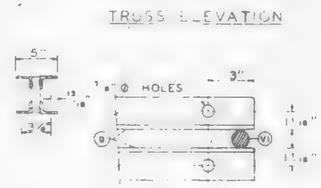
FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWINGS 7-A81-5 7-A81-6	PLATE
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A.	DATE 2/9/68	DRAWN BY: DATE: FEB. 26, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY: DATE FEB. 26, 1968	IN CHARGE OF
DETAILED BY		FABRICATION CONTRACT W.T.C. 22	STEEL NO AT MA



FABRICATION DATA		
CAMBER AT MIDSPAN		
DESIGN DEPTH		
PANEL "K"		
OVERALL LENGTH	58'-10	0 0/8"
WEB DEPTH	31 7/8"	0 1/16"





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■)
⚠ ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

NO.	DATE	REVISION	BY
⚠	7-1-68	CONNECTION FILLER	T.M.C.
⚠	6-27-68	AS NOTED	T.M.C.
⚠	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

7-AB1-8	⚠ 5-10-68
7-AB1-52	2-12-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	4-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF ℄	FILLER NO.	DIA	"M" ℄ HOLES	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T10-5810	6	A242	2"x1⅛"x.25"	58'-10" ⚠	7	A242	2"x1⅛"x.25"	53'-4½" ⚠	3	A242	.82"	93'-5½"	15@ 3'-4"=50'-0"	11	.82"	——	4	.94	.5"	—	——	——	——	

COLUMN END

TRUSS DESIGNATION	Es END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T10-5810		9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.98"	6'-5"	2	A242	.82"	2'-7⅞"	A242	.98"		A242	.82"	2'-9½"	—	——	——	——

CHECK DIMENSION FOR TRUSS FAB

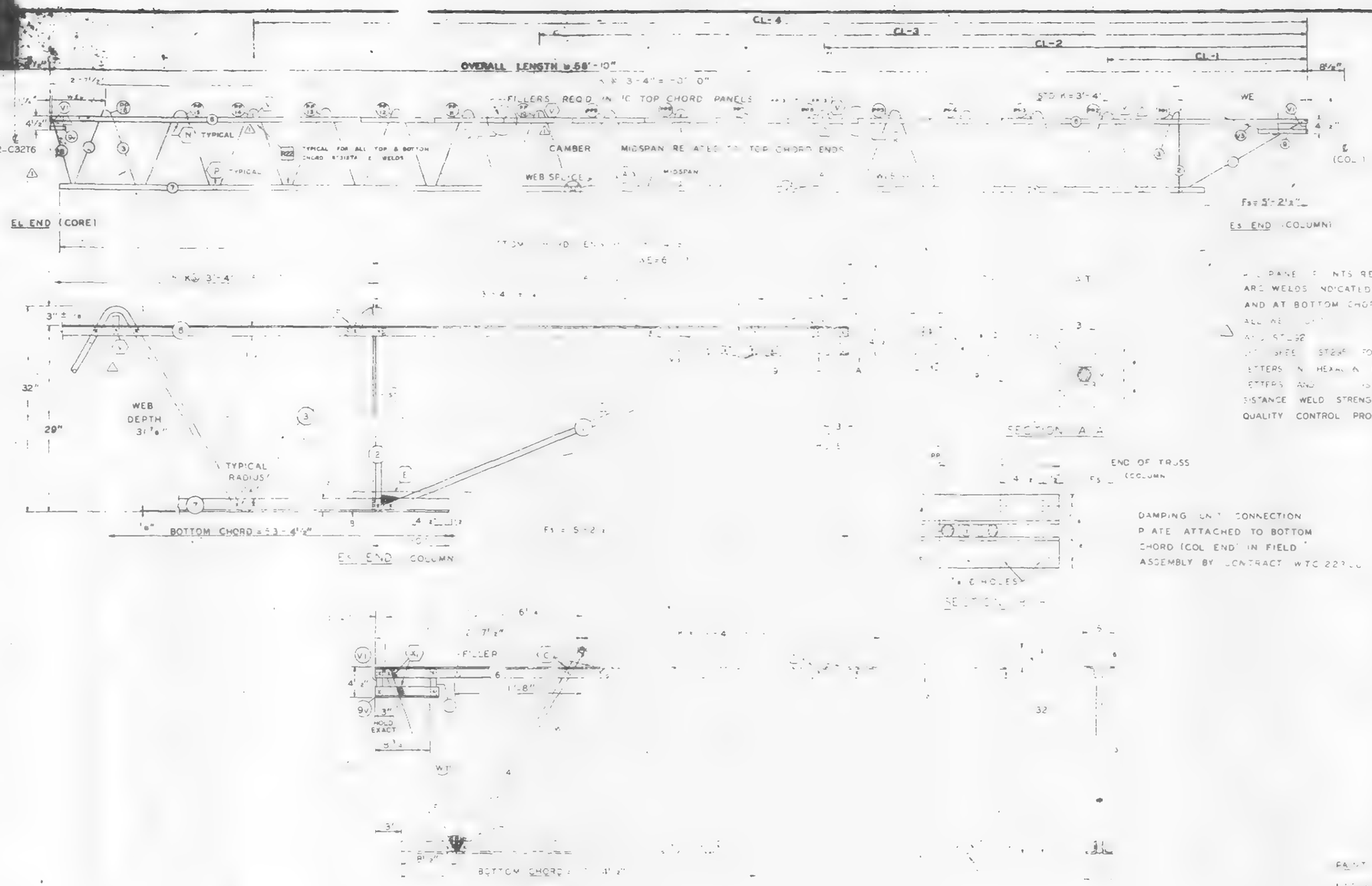
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10⅛"	36'-2½"	49'-6½"	5'-2½"

CORE END

TRUSS DESIGNATION	EL END	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK. V2	MK. V3	MK. V4	WEB "W" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS	DIA	LENGTH
C32T10 5810		6v	A242	2"x1½"x.25"	10"	2'-6½"	—	——	——	——	—	——	——	——	A242	.98"	4'-6"				5	A242	1	.82"	3'-0½"	8	A242	1	.82"	2'-5¾"

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T10 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY	LACLEDE STEEL COMPANY		
FABRICATED AT	MADISON, ILLINOIS	DESIGN DRAWING NO.	7-AB1-8 7-AB1-52 PLATE 4
APPROVED FOR FABRICATION BY	FOR P.O.N.Y.A.	DATE 8/16/68	DRAWN BY: [illegible]
APPROVED FOR FABRICATION BY	FOR FABRICATOR	DATE	DATE: FEB. 26, 1968
DETAILED BY:	A.C. WEBER		CHECKED BY: [illegible]
			FABRICATOR'S W.T.C. 221



FABRICATION		
CAMBER AT MIDSPAN	1/2"	0
DESIGN DEPTH	31"	31 1/4"
PANEL "K"	3'-0"	3'-0 1/4"
OVERALL LENGTH	58'-0"	58'-0 1/8"
WEB DEPTH	31 1/8"	31 1/4"

PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES

ALL MARK DESIGNATIONS ON SHEETS ST290 ST291, AND ST292

SEE SHEETS ST295 FOR V1 & V3 DETAILS.

LETTERS IN HEXAGONS INDICATE WELD DETAIL, ie., (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 22[illegible]

NO	DATE	REVISION	BY
2	6-27-68	AS NOTED	TMC
1	5-27-68	AS NOTED	TMC

REF. DRWG.

7-AB1-8	5-10-68
AB-52	2-8-68
AB4-30A 30B 2	10-20-67
AB3-2	1-3-68
AB4-30.5	10-20-67
7-AB1-53	4-1-68

PAINT

LACLEDE ELECTROCOAT

REC NO 000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	MAIN WEB [illegible]
C32T10-5810	8	A242	2"x1 1/2"x 5/16"	[illegible]

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH
COLUMN END	C32T10-5810	9	A242	2"x1 1/2"x 25/64"	10"	6'-11 3/4"	[illegible]	A242	.98	6'-5"	2	A242	.92"	2'-7 7/8"	A242	.88"	4 3/8"	A242	.92"	2 9/16"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	FS
5'-9"	22'-10 7/8"	36'-2"	49'-6 1/4"	5'-2 7/8"

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
CORE END	C32T10 5810	9V	A242	2"x1 1/2"x 25/64"	10"	2'-6 7/8"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	A242	.92"	4 3/16"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	A242	1	.92	3'-0"	8	A242	1	.92"	2'-5 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T 58'-0" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY JW FOR PONYA — DATE 7/5/68

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR — DATE

DETAILED BY A.C. WEBER

DESIGN DRAWING NO. 7-AB1-8 TABLE 1 PLATE 1

DRAWN BY: [illegible]

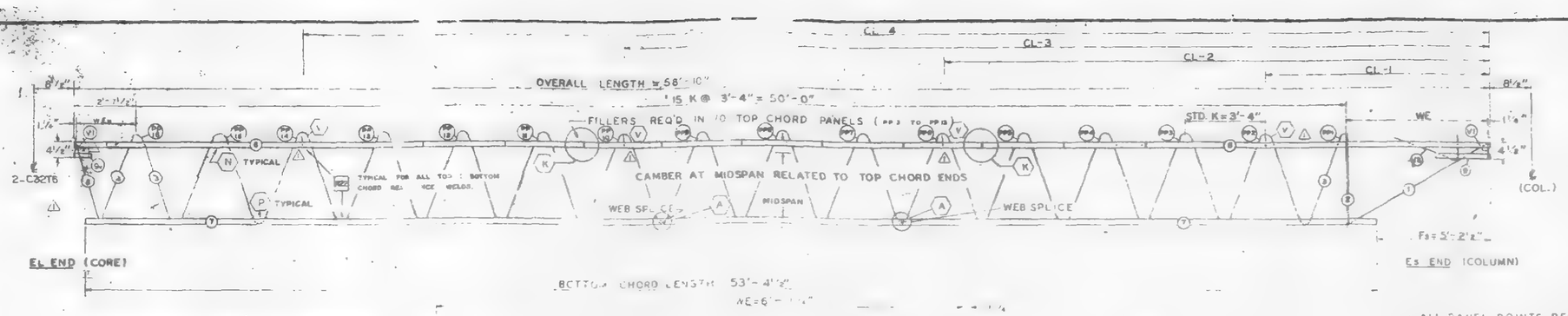
DATE FEB. 26, 1968

CHECKED BY: [illegible] IN CHARGE OF

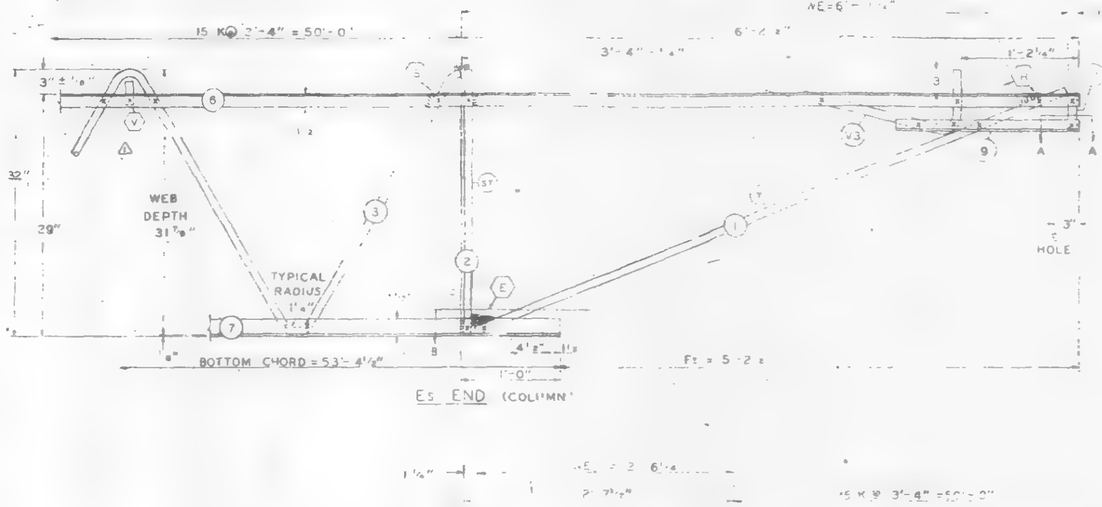
DATE FEB. [illegible] PROJ. ENG.

FABRICATOR'S DRAWING NO.

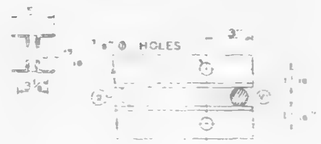
W.T.C. 22[illegible] ST210



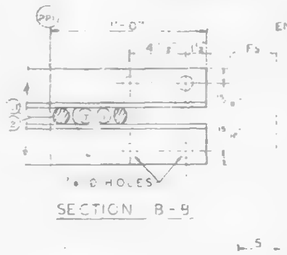
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △	1 7/16"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPT.	31 7/16"	± 1/4"



TRUSS ELEVATION



SECTION A-A



SECTION B-B

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COLUMN END IN FIELD
SHOP BY CONTRACTOR NTS 223.01

- ALL PANEL POINTS RESISTANCE WELDED (R)
- ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (ARC)
- △ ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST292
- SEE SHEET ST295 FOR V2 & V3 DETAILS.
- LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
- LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22

NO.	DATE	REVISION	BY
1	5-27-68	AS NOTED	TMC

W.F. DRAWING

T-28T-8	△	5-10-68
T-28-52		5-5-68
T-28 & T-30A & 30.2		10-20-67
T-28B-2		1-31-68
T-28A-30.5		5-6-67
T-28-53		4-1-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER "C" NO	DIA	"M" PC HOLES	TRUSS DATA	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T10-5810	6	A242	2"x1 1/2"x.25"	58-10"	7	A242	2"x1 1/2"x.25"	53'-4 1/2"	3	A242	.92"	13'-5 1/4"	15 @ 3'-4" = 50'-0"	11	.92"	—	—	—	—	—

COLUMN END

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T10-5810	9	A242	2"x1 1/2"x.25"	1'-10"	6'-1 1/4"	1	A242	.98"	5'-5"	2	A242	.92"	2'-7 7/8"	A242	.98"	4 3/4"	A242	.98"	2'-9 1/2"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/8"	36'-2 1/4"	49'-6 1/2"	5'-2 1/2"

CORE END

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V3 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T10-5810	9V	A242	2"x1 1/2"x.25"	10"	2'-5 3/4"	—	—	—	—	—	—	—	—	A242	.92"	4 3/8"	—	—	—	—	—	—	4	A242	1	.92"	3'-0 1/2"	8	A242	1	.92"	2'-9"

TRUSS DETAILS FOR WORLD TRADE CENTER TOWERS A-B FOR THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY JW FOR PONYA — DATE 6/25/68

APPROVED FOR FABRICATION BY ESP FABRICATOR — DATE

DETAILED BY A.C. WEBER

DESIGN DRAWING NO. T-28B-8 T-28B-2 PLATE

DRAWN BY: [illegible] DATE: FEB. 26, 1968

CHECKED BY J.W. Ponya DATE FEB. 26, 1968 — IN CHARGE OF ENGR. DEPT.

FABRICATION CONT. NO. WTC 221 — SHEET NO. ST 210

C32T6

CL-4 CL-3 CL-2 CL-1

OVERALL LENGTH = 58'-10 1/2"

15 K @ 3'-4" = 50'-0"

FILLERS REQ'D IN 10 TOP CHORD PANELS (PP3 TO PP13)

CAMBER AT MIDSPAN RELATED TO TOP CHORD ENDS

STD K=3'-4"

WE 1'-6"

4'-4"

Fs=5'-2 1/8"

Es END (COLUMN)

FABRICATION REQUIRMENTS		
	DESIGN	TOLERAN
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	±4"
PANEL "K"	3'-4	± 4
OVERALL LENGTH	58'-10 1/2"	± 3 8"
WEB DEPTH	31 7/8"	8

TOM CHORD LENGTH 53'-8"

WE=6 - 1"

6'-2 1/2"

3'-4 ± 4

32"

29"

WEB DEPTH 31 7/8"

TYPICAL RADIUS 1'-6"

BOTTOM CHORD = 53'-8"

1'-0"

Fs = 5'-2 1/8"

Es END (COLUMN)

TRUSS ELEVATION

3" HOLL

SECTION A-A

7/8" Ø HOLES

3"

SECTION B-B

END OF TRUSS (COLUMN)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

1 1/8" Ø holes

WE = 2 (6 1/4")

2'-8"

5 K @ 3'-4" = 50'-0"

BOTTOM CHORD = 53'-8"

Es END (CORE)

32"

29"

5"

REF. DRWG.

7-A81-8	4-1-68
7-A81-52	2-15-68
7-A84-50A 50.2	10-20-67
7-A83-2	1-3-68
7-A81-50.5	10-20-67
7-A81-53	4-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		"M" C.C. HOLES	TRUSS DATA		CHORD PLATE		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			MK	TYPE STEEL	SIZE	LENGTH
C32T10 5810.5	6	A242	2"x1 1/2"x.25"	58'-10 1/2"	7	A242	2"x1 1/2"x.25"	53'-8"	3	A242	.92"	93'-5 1/2"	15@ 3'-4"=50'-0"	10	.92"			—	—	—	—

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	LENGTH		MK	TYPE STEEL	DIA	LENGTH
	C32T 5810.5	9	A242	2"x1 1/2"x.25"	5"	6'-1 1/4"		A242	.58	6'-5"	2	A242	.92"	2'-7 3/8"	A242	.98"	4 3/8"	A242	2'-6"		—	—	—	—

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE V	VERTICAL "ST" STRUT				VERTICAL "ST" STRUT				E D STIFFENER								WEB WC				WEB WT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T 5810.5	9V	A36	3x2x 5/16	0'-10"	2 6 1/4		A242	.58	8 1/4"													4	A242	1	.92"	3'-1 1/2"	8	A242	1	.92"	2'-9"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/4"	49'-6 1/4"	5'-2 1/8"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10 1/2" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

DESIGN DRAWING NO 7-A81-8 7-A83-2 PLATE

APPROVED FOR FABRICATION BY _ FOR PONYA — DATE —

DRAWN BY L.B

DATE FEB. 26, 1968

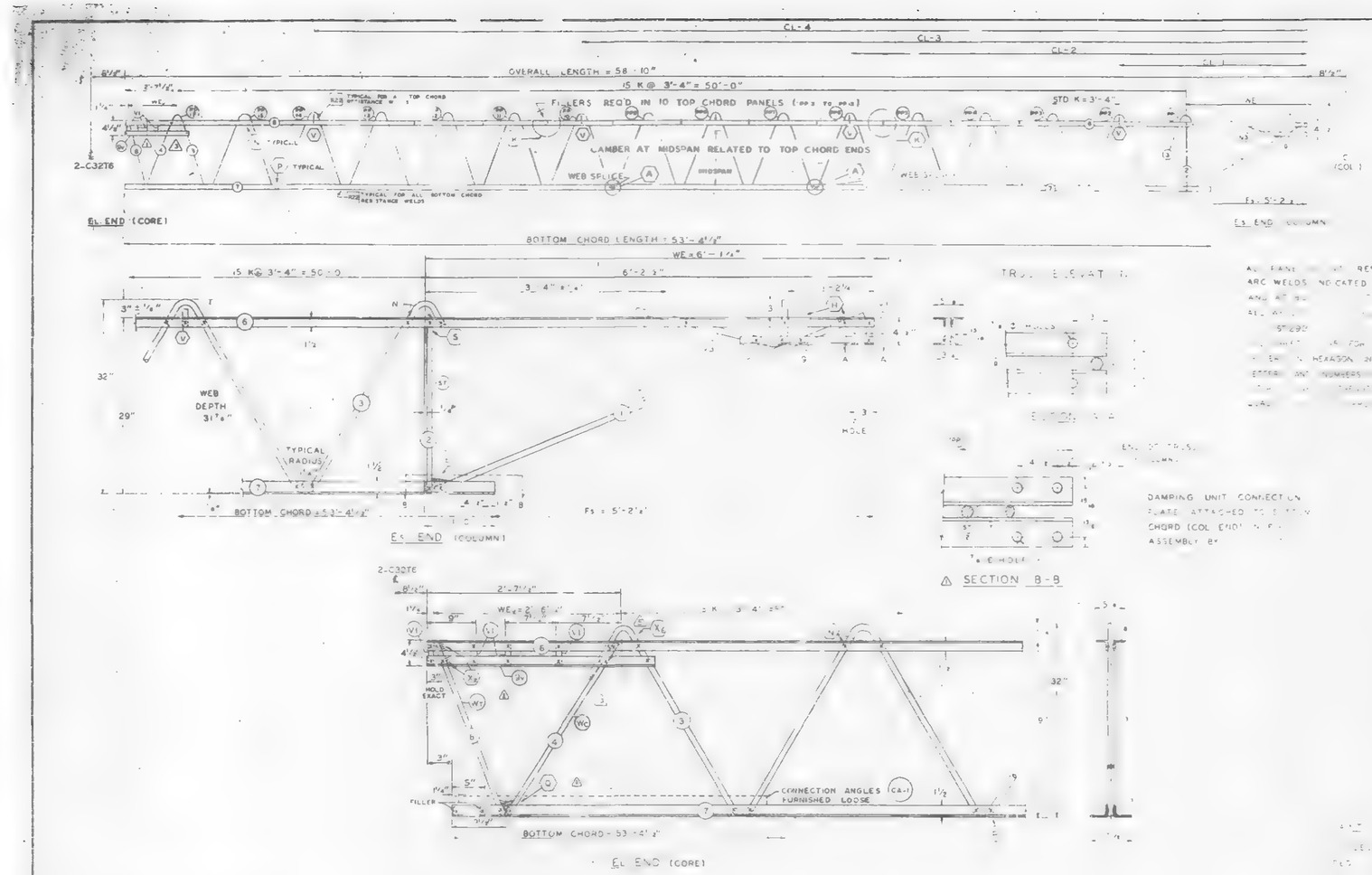
APPROVED FOR FABRICATOR BY _ FOR FABRICATOR — DATE —

CHECKED BY J.R PAUL — IN CHARGE OF PROD. DEV

DETAILED BY A.C. WEBER

FABRICATION CONT. NO. WTC 221

SHEET NO ST210



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/8"	± 0"
DESIGN DEPTH,	29"	± 1/8"
PANEL "K"	3'-4"	± 1/8"
OVERALL LENGTH	58'-0"	
WEB DEPTH	31 7/8"	4"

NO	DATE	REVISION	BY
5	12-3-68	GENERAL	GC
4	7-1-68	AS NOTED	W
3	5-70	AS NOTED	GC
2	12-3-68	GENERAL	GC
1	7-1-68	AS NOTED	W

REF DR 5

... 9 ... 7 22 ...
... AB 22 ... 1-18
... AB 4 1/2 ... 8-1-68
... AB 3 ... 3-1-68
... AB 4 1/2-3 ... 10 20 ...
7-AB1-53 ... 22 68

... ELE ELECTROCOAT
FILE NO 000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	NO OF K	FILLER NO	DIA	"M" "C" HOLES	CONNECTION FILLERS NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T11-5810	6	A242	2"-1 2"x.25"	56'-10"	7	A242	2 x 1 1/2" x .25"	53'-4 1/8"	3	A242	92	94"W 15 @ 3'-4"=50'-0"	12	92		4	92	3"	-			

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
COLUMN END	ES END																							
	C32T-5810	9	A242	2"x11"x 2"	1'-10"	6'-1"W		A242	92	6'-5"	2	A242	92	2'-4 3/4"	PL 1/2"	A242	92	4 3/8"	A242	92	2'-9"	-	—	—	—

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS
CL-1 ... CL-2 ... C.-3 ... CL-4 ... ES
7 SEC 22'-10 1/4" 36-2 1/2" 49 6 1/4" 5'-2 1/2"

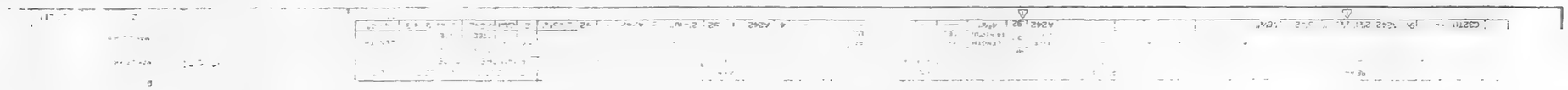
	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V4 TYPE STEEL	DIA	LENGTH	MK V6 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (2 REQD) FURNISHED LOOSE NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	EL END																																		
	C32T11-5810	9v	A242	2"x11"x.31"	3'-2"	2'-6 1/4"W	-	—	—	—	-	—	—	—	PL 1/2" A242	92	4 3/8"	-	—	—	4	A242	1	92	2'-10"	8	A242	1	92	2'-5 3/4"	2	CA-1	A242	2 x 1/2 x 3'	4'-4"

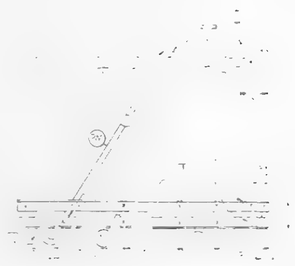
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

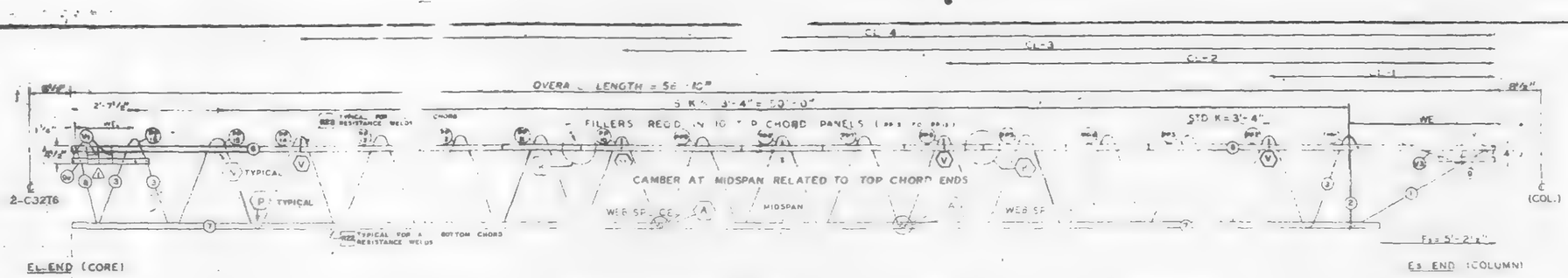
FLOOR TRUSS C32T11 - 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

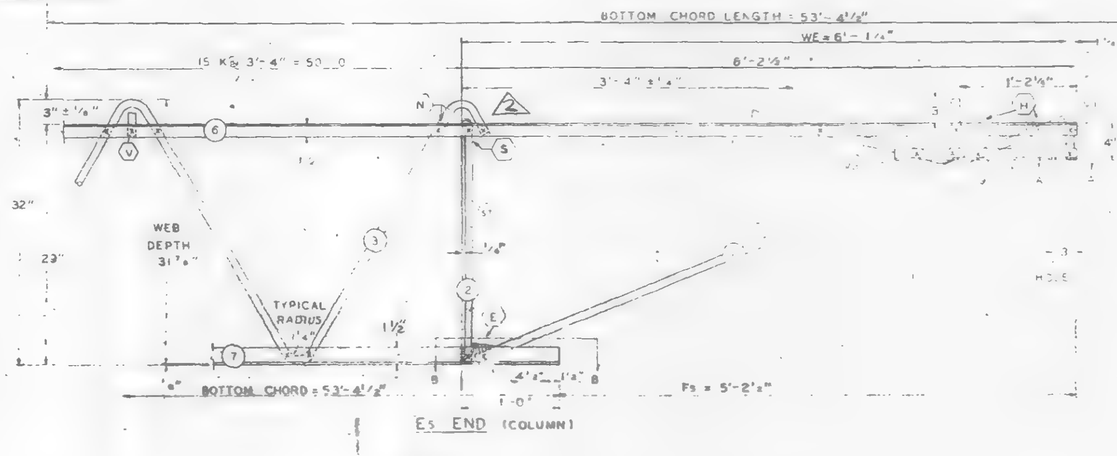
FABRICATION BY	LACLEDE STEEL COMPANY		
FABRICATED AT	MADISON, ILLINOIS	DESIGN DRAWING NO	7-AB1-9 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY	FOR PORT A	DATE	DRAWN BY LK DATE MAY 27, 1968
APPROVED FOR FABRICATION BY	FOR FABRICATOR	DATE	CHECKED BY J.H. BOLIN DATE MAY 27, 1968
DETAILED BY	H.C. WEBER	FABRICATION CONT. NO. W T E 221	IN CHARGE OF PROD. DEPT. SHEET NO. 5 12

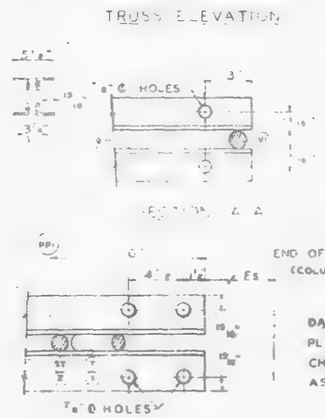






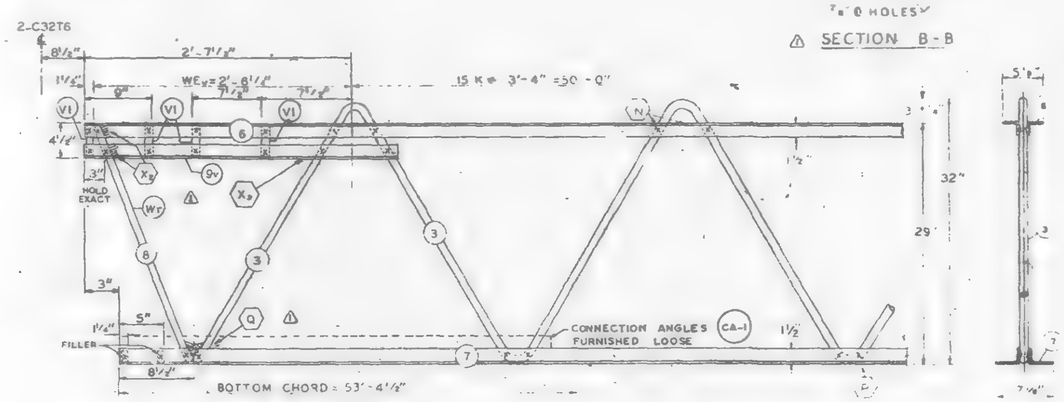
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/16"	± 3/8"
DESIGN DEPTH	32"	± 4"
PANEL "K"	3'-4"	± 4"
OVERALL LENGTH	58	± 3/8"
WEB DEPTH	3	± 1/16"





ALL PANEL POINTS RESISTANCE WELDED (R) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST25L, ST29L, AND ST29Z.
SEE SHEET ST29S FOR VI & VR DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELDING NOTES AS SHOWN IN THE QUALITY CONTROL PROGRAM P.A. R22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY [illegible] W.C. 223 U.



⚠ SECTION B-B

NO.	DATE	REVISION	BY
⚠	12-3-68	GENERAL	DMC
⚠	7-1-68	AS NOTED	JTM O

REF. DRWG.

7-AB1-9	7-22-68
7-AB1-52	7-22-68
7-AB4-30	8-1-68
7-AB3-2	7-22-68
7-AB4-50.5	10-20-67
7-AB1-53	7-22-68
	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 19001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	FILLER DIA	¢ HOLES	CONNECTION FILLERS NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T11-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4½"	3	A242	.92	97'-0"	15 K @ 3'-4" = 51'-8"	12	.92	—	4	.92	3"	—	—	—	—

	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK VI TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T11-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	—	A242	.92	6'-5"	2	A242	.92	2'-4⅞"	A242	.92	4⅝"	A242	.92	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10⅛"	36-2½	49'-6½"	5'-2½"

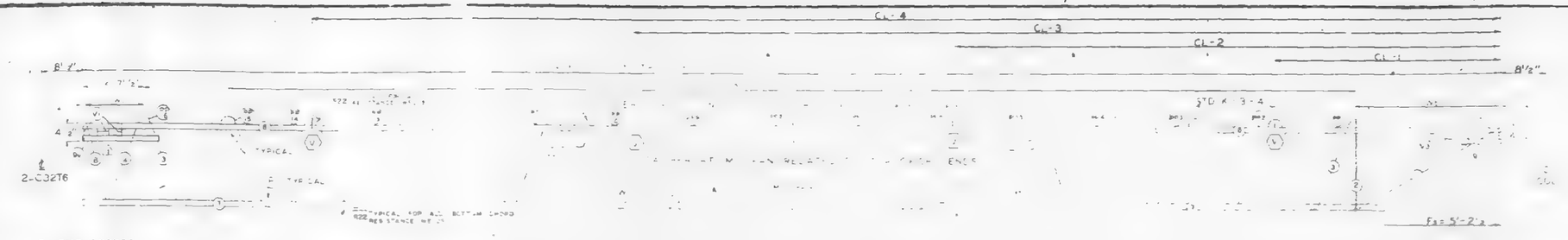
	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "SF" STRUT MK	TYPE STEEL	DIA	LENGTH	STIFFENER MK VI TYPE STEEL	DIA	LENGTH (4 REQ'D)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (2 REQD) FURNISHED LOOSE NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END		C32T11-5810	9v	A242	2"x1½"x.3" ⚠	3'-2"	1'-6⅞"	—	—	—	—	—	—	—	—	A242	.92	4⅝"	—	—	—	—	—	—	—	—	—	—	8	A242	1	.92	2'-5¾"	2	CA-1	A242	2"x1½"x3/16"	4'-4"

FABRICATION BY:	LACLEDE STEEL COMPANY		
FABRICATED AT:	MADISON, ILLINOIS	DESIGN DRAWING NO	7-AB1-9 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 12/1968	DRAWN BY: L.S DATE: MAY 27, 1968	
APPROVED FOR FABRICATION BY — FOR FABRICATOR	DATE	CHECKED BY J.B. MAAS DATE MAY 27, 1968	IN CHARGE OF PROD. DEPT.
LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST2U

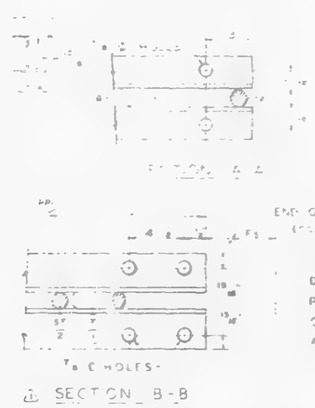
STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B



FABRICATION REQUIREMENTS	DESIGN	CAMBER
CAMBER AT MIDSPAN		1 1/8"
TRUSS DEPTH	29"	
CHORD SPACING	3'-4"	
OVERALL LENGTH		
WEB DEPTH	31 7/8"	



ALL PANEL POINTS ARE FRANCE WELDED (F)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL AT SHOP UNLESS SHOWN IN SHEETS ST290, ST291, AND ST292
SEE SHEET 5 FOR SHOP & FIELD DETAILS
LETTERS (A) IN HEXAGON INDICATE WELD DETAIL (A).
LETTERS AND NUMBERS IN SQUARES INDICATE REQUIRED NDT AS SPECIFIED IN THE QUALITY CONTROL PROGRAM. ◇ R32

NO.	DATE	REVISION	BY
1	7-1-68	AS NOTED	T.M.C.

REF. DRWG

7-AB1 9	4	B1
7-AB1 22	2	B2
7-AB1 [illegible]	[illegible]	[illegible]
7-AB1 [illegible]	[illegible]	[illegible]
7-AB1 53	4	B1

PAINT
ALL EXC ELECTROCOAT
REF. NO. 0001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEB ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	NO. OF PCS.	WEB PLATES MK.	TYPE STEEL	DIA.	LENGTH	FILLERS NO.	DIA.	LENGTH	CONNECTION H.S. PLATES MK.	TYPE STEEL	SIZE	LENGTH
C32T11-5810	6	A242	2"x1'-8"x.25"	58'-10"	7	A242	2"x1½"x.25"	58'-4⅛"	5	A242	.92	1'-10"	2	8	A242	.92	4'-8"	4	.92	2'-9"	9	A242	.92	2'-7"

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEB	DIAGONAL "I" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	STIFFENER MK V1 TYPE STEEL	DIA.	LENGTH	STIFFENER MK V2 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T11-5810	9	A242	2"x1'-8"x.25"	1'-10"	6'-1⅛"	1	A242	.92	6'-5"	2	A242	.92	2'-7⅛"	A242	.92	4'-8⅛"	A242	.92	2'-9"				

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
5'-6½"	22'-10½"	36-2½"	49-6⅛"	5'-2⅞"

CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEV	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA.	LENGTH (4 REQ'D)	END STIFFENER MK V2 TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V4 TYPE STEEL	DIA.	LENGTH	WEB "WC" MK.	TYPE STEEL	PCS.	DIA.	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS.	DIA.	LENGTH
	C32T11-5810	9V	A242	2"x1'-½"x.3"	3'-2"	2'-6¼"	—	—	—	—	—	—	—	—	A242	.92	4'-9⅛"	—	—	—	—	—	—	4	A242	1	.92	3'-0½"	8	A242	1	.92	2'-5¾"

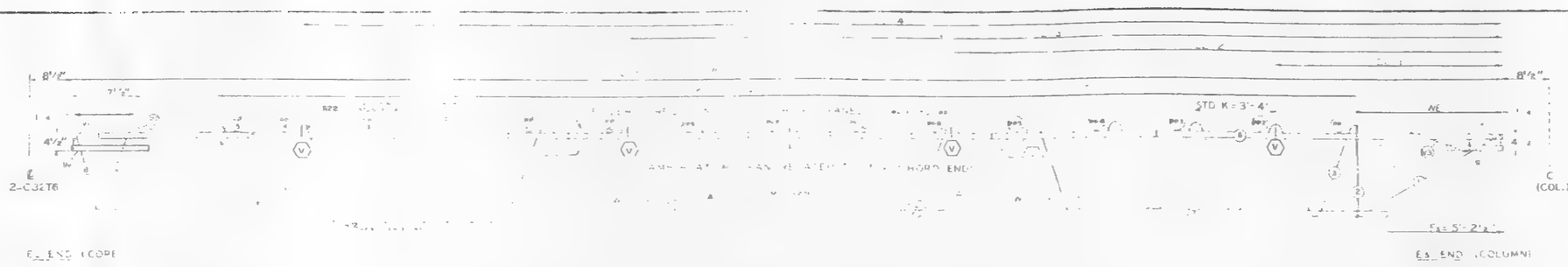
CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
2	CA	A242	2"x1'-2"x.31	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY	LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1 9 7-AB1 22	PLATE
APPROVED FOR FABRICATION BY JW FOR PONYA	DATE 7/9/68	DRAWN BY S.B. DATE MAY 27, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. BLUM DATE MAY 27, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST211



FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/16"	± 3/8
DESIGN DEPTH	28"	± 1/4
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	56'	± 3/8"
WEB DEPTH	8"	± 1/16"

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (■)
ALL WELD SIZES SHOWN ON SHEETS ST290, ST291, AND ST292.
SEE SHEET ST295 FOR 1 & 3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R22.

REF. DRWG.

7-AB1-9	
7-AB1-52	
7-AB4-5[illegible]	
7-AB3-[illegible]	
7-AB4-5[illegible]	
7-AB1-53	

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD ANGLES						BOTTOM CHORD ANGLES						CONNECTION PLATES				FILLERS					
	MK	TYPE STEEL	SIZE	THICK	WIDTH	LENGTH	MK	TYPE STEEL	SIZE	THICK	WIDTH	LENGTH	MK	TYPE STEEL	THICK	WIDTH	MK	TYPE STEEL	THICK	WIDTH	LENGTH	NO
C32T11	25	A242	2"x1⅛"	.25"	4'-2"	A242	.92	12	92	4	A242	.92	13	92	12		42	A242	.92	3"		

TRUSS DESIGNATION	VERTICAL STRUTS												DIAGONAL STRUTS											
	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE																								
END																								
C32T11	31	A242	.92	2'-6"	4	A242	.92	4'-8"																

TRUSS DESIGNATION	WEB "WC"				WEB "WT"				CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE				
	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	NO	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
	8	A242	1	.92	2'-5¾"	2	CA	A242	2"x1 2"x 3I	4-4"					

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9' [illegible]	23	0-[illegible] 15	49 6½	19 -2½

SPILLING-NEELE CHRISTIANSEN-ROBERTSON
Structural & Civil Engineers
AS-BUILT
APPROVED AS NOTED
6/27/68 SK

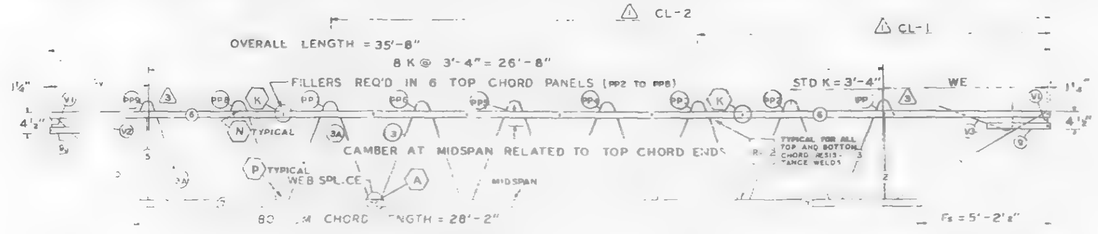
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 58'-10" OVER ℄

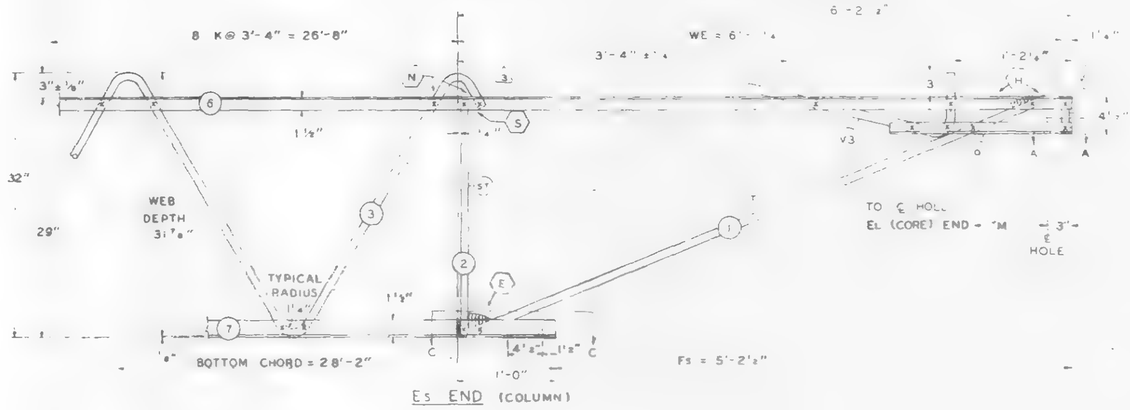
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB 9 7-AB2-2	PLATE
APPROVED FOR FABRICATION BY FOR POM Y A	DATE	DRAWN BY S.B. DATE MAY 27, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R.PAUL DATE MAY 27, 1968	IN CHARGE FROM DEP
LACLEDE STEEL CO DETAILED BY A.C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. ST2J

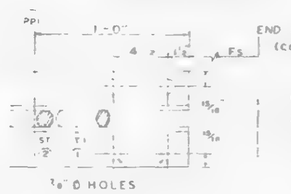


TRUSS ELEVATION

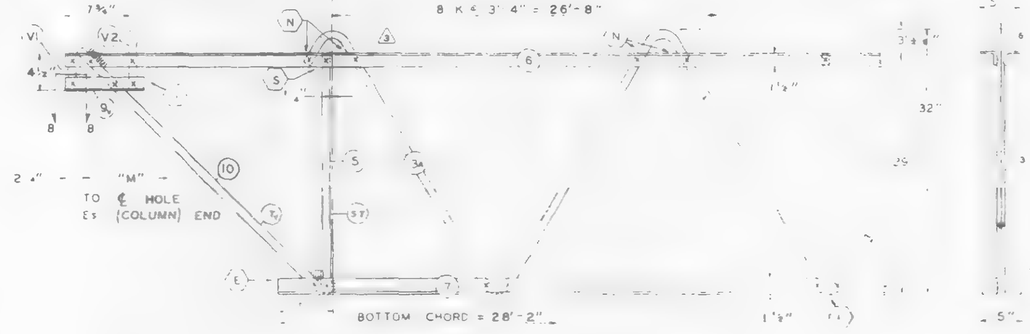


Es END (COLUMN)

SECTION A-A



SECTION C C



SECTION B B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				WEB					FILLER ℄ HOLES		TRUSS WT.	ATS
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		
C32T12-358	6	A242	2"x1½"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3A	A242	0.098	16'-0"	2½" - 3'-4" = 8'-4"	6	0.656	35'-2¾"	
									3	A242	0.098	18'-4"	3'-4" = 18'-4"				

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T12-358	9	A242	2"x1½"x.025	1'-0"	6'-1¼"	6	A242	0.098	6'-5"	2	A242	0.092	2'-4⅜"	A242	0.098	4'-3⅛"	A242	0.098	2'-9½"		

CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END PLATE MK	TYPE STEEL	DIA	LENGTH	WEB PLATES MK	TYPE STEEL	PCS	DIA	LENGTH	WEB PLATES MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T12-358	9	A242	2"x1½"x.025	10"	2'-8⅛"	10	A242	0.098	3'-6¼"	5	A242	0.098	2'-4⅜"	A242	0.098	4'-3⅛"	A242	0.098	7⅞"								

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
1'-10⅞"	26'-1¼"			5'-2⅛"

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/4"	- 1/4" + 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "M"	3'-4"	± 1/4"
OVERALL LENGTH	35'-8"	± 8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬). ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.

SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

3	11-20-68	AS NOTED	G.D.C.
2	6-20-68	CAMBER, END STIFFENER, WEB	T.M.C.
1	3-19-68	WELD DETAIL, CL DIMENSIONS, CAMBER	J.R.P.
NO	DATE	REVISION	BY

(3) REF DRWGS.

7-AB1-51	7-22-68
7-AB1-52	[illegible]
7-AB4-50	8-1-68
7-AB1-53	10-15-68
7-AB4-505	10-20-67

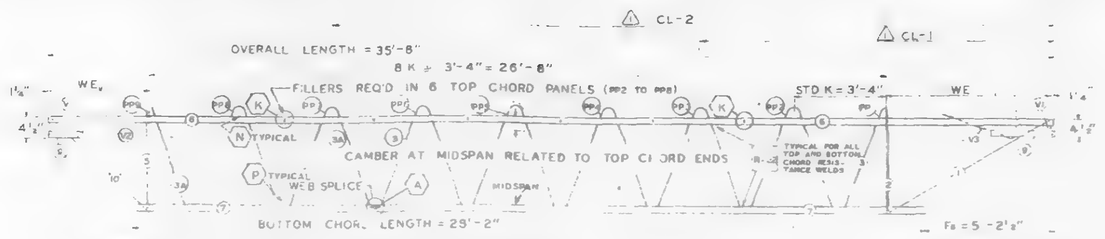
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T12 35'-8" OVERALL

WORLD TRADE CENTER TOWERS A B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE 12/9/68	DRAWN BY [illegible] DATE FEB 28, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 28, 1968
DETAILED BY A.C. WEBER		FABRICATION CONT NO WTC 221
		IN CHARGE OF PROD DEV
		SHEET NO ST212

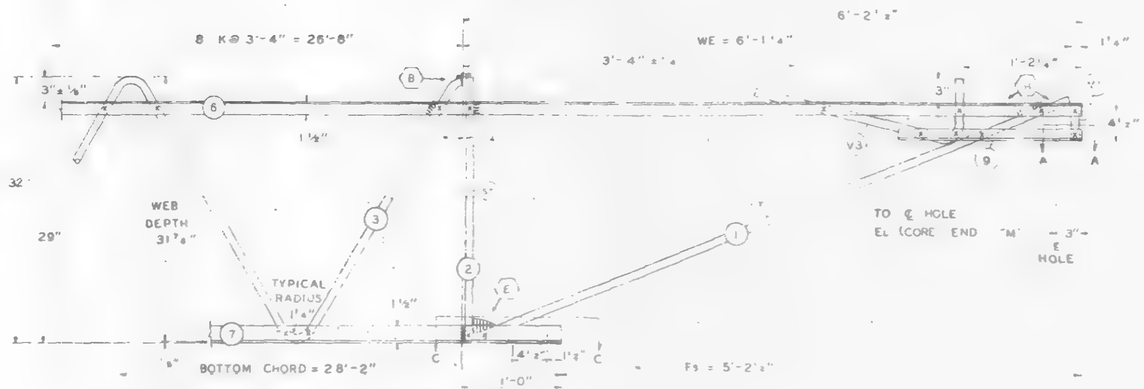


ES END (CORE) — TRUSS ELEVATION — ES END (COLUMN)

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/4"	1/4" -3/8"
DESIGN DEPTH	3"	3 1/16"
PANEL "K"	-4"	± 1/4"
OVERALL LENGTH	5'-8"	± 1/8
WEB DEPTH	31 7/8"	1/4"

ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (SHOP). ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291

SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. (e.g. R-22).

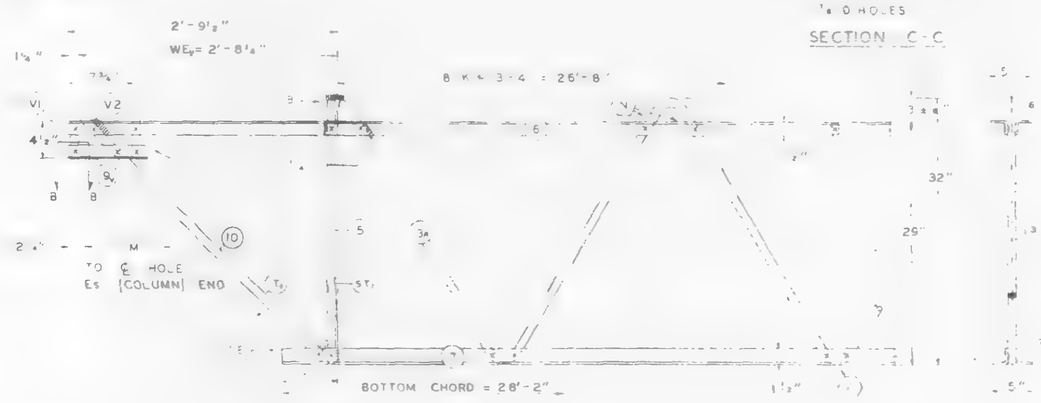


ES END (COLUMN)

SECTION A-A

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



ES END (CORE)

SECTION B-B

2	6-20-68	CAMBER, END STIFFENER, WEB	WMC
1	3-19-68	WELD DETAIL, CL DIMENSIONS, CAMBER	RP
NO	DATE	REVISION	BY

REF DRWGS.

7-AB1-51	4-1-68
7-AB1-52	2-15-68
7-AB4-50 & 50.2	10-20-67
7-AB1-53	4-1-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCAT
REF

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		
C32T12-358	6	A242	2"x1 1/2"x.025	35'-8"	7	A242	2"x1 1/2"-.025	28'-2"	3A 3	A242 A242	0.98 0.92	6'-8 7/8" 34'-3"	2 1/2 - 3'-4" = 8'-4" 5 1/2 @ 3'-4" = 18'-4"	6	0.92	35'-2 3/8"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK VI				END STIFFENER MK V3			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH	
	C32T12-358	9	A242	2"x1 1/2"x.025	1'-10"	6'-1 1/4"		A242	.098	6'-5"	2	A242	.098	2'-7 7/8"	A242	.098	4 3/8"		A242	.098	2'-9 1/2"	

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	DIAGONAL "T" STRUT				VERTICAL ST STRUT				STIFFENER MK VI			STIFFENER MK V2			STIFFENER MK V4			WEB "DS10"					WEB "DS5"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T12-358	9	A242	2"x1 1/2"x.025	1'-0"	2'-8 1/2"		A242	.098	3'-6 1/4"	5	A242	.098	2'-7 7/8"	A242	.098	4 3/4"	A242	.098	7 3/8"													

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12-10 1/2"	26'-2 1/2"			5'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T12 35'-8" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB1-11 PLATE

APPROVED FOR FABRICATION BY JW FOR POWYS — DATE 6/27/68

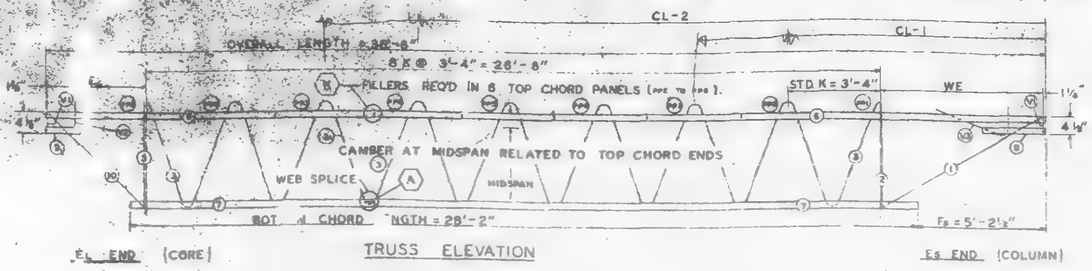
DRAWN BY [illegible]

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

CHECKED BY J.B PAUL DATE FEB 28, 1968 — IN CHARGE OF PROD DEV

DETAILED BY A C WEBER

FABRICATION CONT NO WTC 221 — SHEET NO ST212



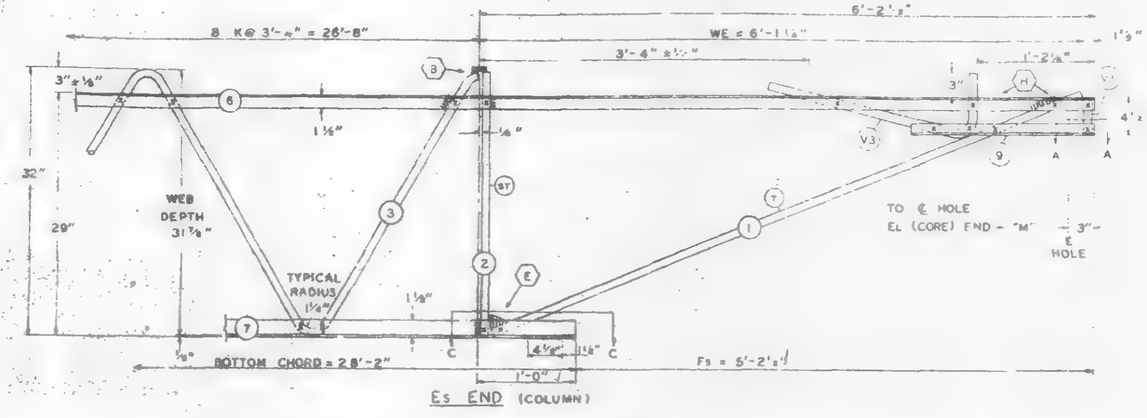
EL END (CORE)

TRUSS ELEVATION

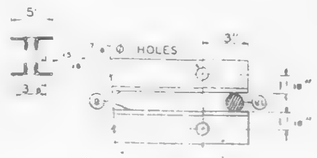
Es END (COLUMN)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	35'-	± 3/8"
WEB DEPTH	2"	± 1/ "

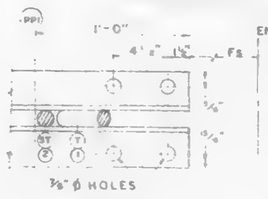
ALL PANEL POINTS RESISTANCE WELDED (•).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.
BOXED LETTERS INDICATE WELD DETAIL, ie., (A).



Es END (COLUMN)

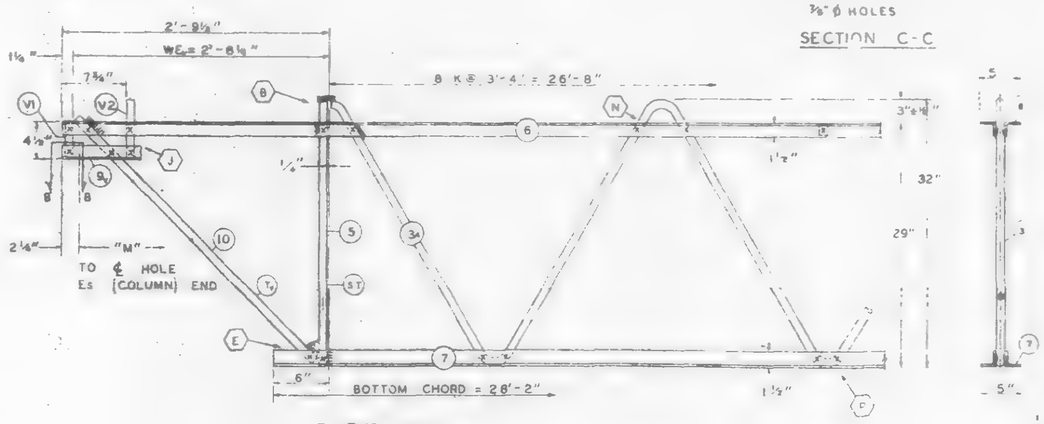


SECTION A-A

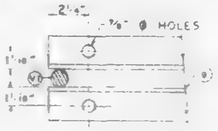


DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSL JLY BY CONTRACT WTC 223 00

SECTION C-C



EL END (CORE)



SECTION B-B

REF DRWGS		
	7-A81-11	2-15-68
	7-A81-52	2-15-68
	7-A84-50 & 50.2	10-20-87
	7-A81-53	1-3-68
	7-A84-505	10-20-87

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO OF K	NO	DIA			
C32T12-358	B	A242	2"x1 1/2"x.025	35'-8"	T	A242	2"x1 1/2"x.025	28'-2"	3A	A242	.0276	15'-8 1/8"	2 1/2 @ 3'-4" = 8'-2"					
									B	A242	.0921	24'-3 1/4"	5 1/4 @ 3'-4" = 16'-1"	6	0.92	35'-2 3/4"		

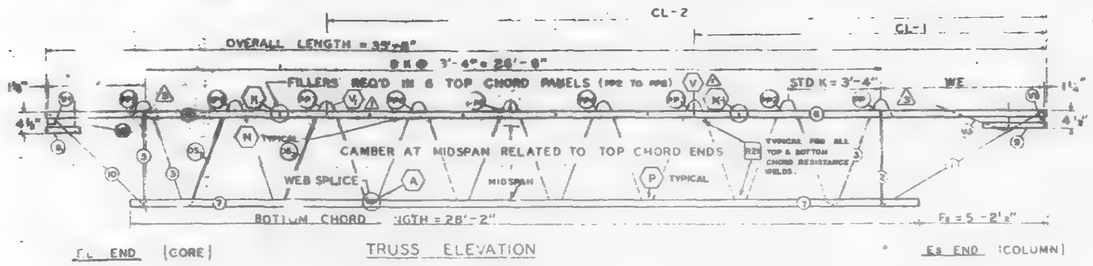
COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH
		C32T12-358	B	A242	2"x1 1/2"x.025	1'-10"	6'-1 1/8"	T	A242	0.98	8'-5"	2	A242	0.92	2'-7 7/8"	A242	0.98	4 5/8"	A242	0.98	2'-9 1/8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "DS10" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "DS5" MK.	TYPE STEEL	PCS	DIA	LENGTH
		C32T12-358	A	A242	2"x1 1/2"x.025	10"	2'-8 1/8"	T	A242	0.98	7'-6 1/4"	S	A242	0.98	2'-4 3/8"	A242	0.98	4 3/8"	A242	0.98	7 3/4"													

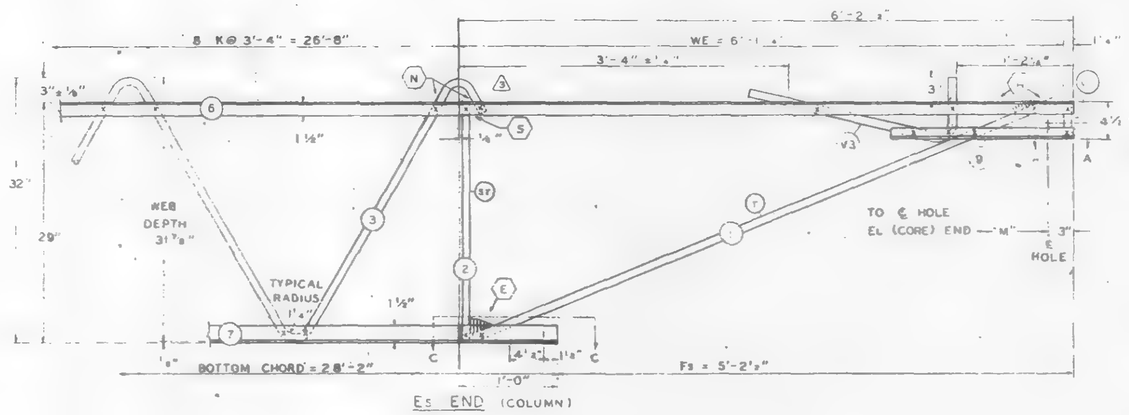
CHECK DIMENSION FOR TRUSS FAB.

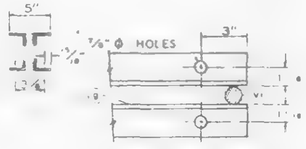
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
2'-6 1/2"	22'-10 1/2"			5'-2 1/8"

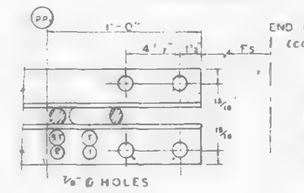
STEEL TRUSS DETAILS	
FOR	
WORLD TRADE CENTER - N.Y.C	
FOR	
THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS - C32T12 35'-8" OVERALL	
WORLD TRADE CENTER TOWERS A-B	
FABRICATION BY: LACLEDE STEEL COMPANY	
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO 7-A81-11 PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE	DRAWN BY: DATE: FEB. 24, 1988
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE	CHECKED BY: DATE: FEB. 24, 1988 IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 SHEET NO. ST212



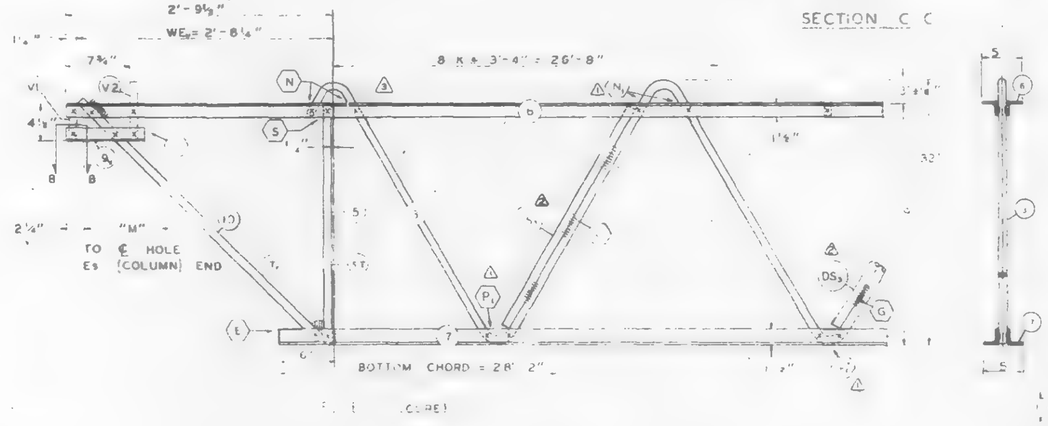
TRUSS ELEVATION

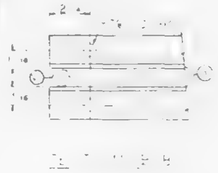






DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 △1 AND ST292.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R21.

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △	7/8"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/8"
OVERALL LENGTH	35'-8"	± 3/8"
WEB DEPTH	31"	± 1/4"

NO	DATE	REVISION	BY
△3	11-20-68	AS NOTED	G.D.C.
△2	7-23-68	MARK DS2 LENGTH	T.M.C.
△1	6-22-68	AS NOTED	T.M.C.

△3 REF DRWGS

7-AB1-12	7-22-68
7-AB1-52	2-15-68
7-AB4-50	8-1-68
7-AB1-53	7-22-68
7-AB4-505	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FIELD SPLICE HOLES			CONNECTION FILLERS △		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	NO OF K	NO	DIA		NO	DIA	LENGTH
C32713-358	F	A242	2"x1½"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3	A242	098	50'-8¾"	8 @ 3'-4"=26'-8"	6	0.58	35'-2⅜"	2	98	3"

TRUSS DESIGNATION	Fs or Es END	BEARING ANGLES				WE	DIAGONAL "W" STRUT				VERTICAL "ST" STRUT				END STIFFENER					
		MK	TYPE STEEL	ANGLE SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH
C32713-358	Es	B	A242	2"x1½"x.025	10"	6'-1¼"	A2	098	6'-5"		2	A242	098	2'-4⅜"	A242	098	4⅜"	A242	098	2'-4⅜"

TRUSS DESIGNATION	EL END	BEARING ANGLES				WEv	DIAGONAL "Wv" STRUT				VERTICAL "STv" STRUT				STIFFENER						WEB "DS10"				WEB "DS5"				DOUBLE STRUT DS2				
		MK	TYPE STEEL	ANGLE SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH
C32713-358	Ev	9v	A242	2"x1½"x.025	10"	2'-8⅛"	0	A242	098	3'-6⅛"	5	A242	098	2'-4⅜"	A242	098	4⅜"	A242	098	7⅜"														DS2	2	A242	.75	2'-6¾"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2⅛"			5'-2⅛"

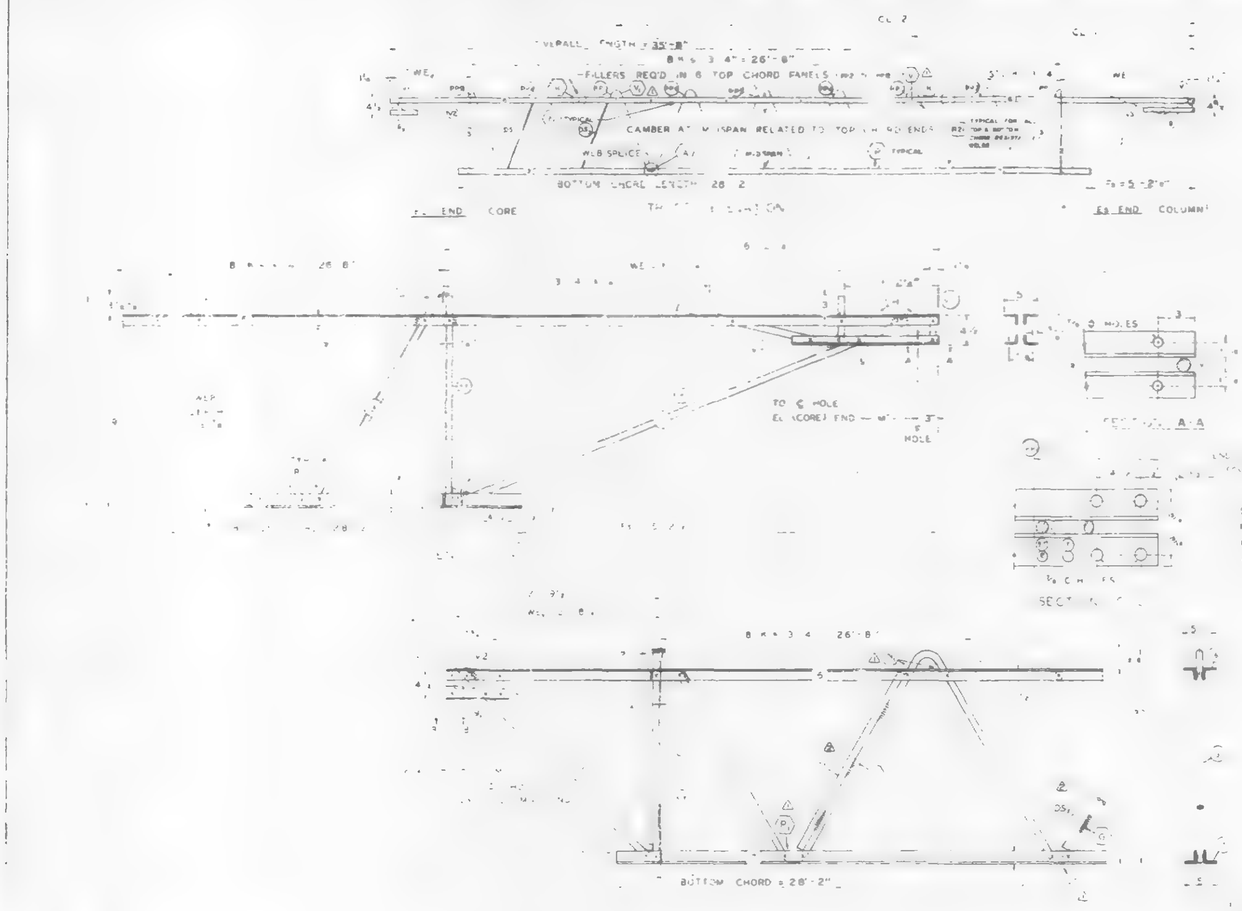
DESIGN	H.E. TROCHAT
DRAWN	
CHECKED	

FOR
A.M. CASTLE & CO.
FRANKLIN PARK, ILL.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32713 35'-8" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-12
DATE
SHOP DWG FOR FABRICATION APPROVED FOR PONTA 12/9/68
DRAWN BY
DATE FEB 28, 1968
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR
DATE
CHECKED BY J.P. PAUL
DATE FEB 28, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO 221
SHEET NO ST213
DETAILED BY [illegible]



FABRICATION REQUIREMENTS		DESIGN	TOLERANCE
CAMBER AT MIDSPAN	△	7/8	± 1/8
DESIGN DEPTH		28	± 4
PANEL "B"		3 3/4	± 1/4
OVERALL LENGTH		35'-8	± 5/8"
WEB DEPTH		5'-1 5/8	± 1/4

ALL PANEL POINTS RESISTANCE WELDED EXCEPT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
FOR WELD DETAILS SHOWN ON SHEETS ST293, ST294 △ AND ST292.
SEE SHEET ST295 FOR W1, W2, & W3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R21.

CAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COIL END IN FIELD) ASSEMBLY BY CONTRACT #'S 22300.

REF DRWGS	
	AB4 50 & AD2 10-20 87
	AB 52
	AB4 50 9 10-20 8

CONNECTION FILLERS △			
NO	DIA	LENGTH	
2	98	3"	

END STIFFENER					
TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
A242	098	4 5/8	A242	098	2 9 1/4"

CHECK DIMENSION FOR "BUTT" SAW LOCATION OF TRANS TRUSS

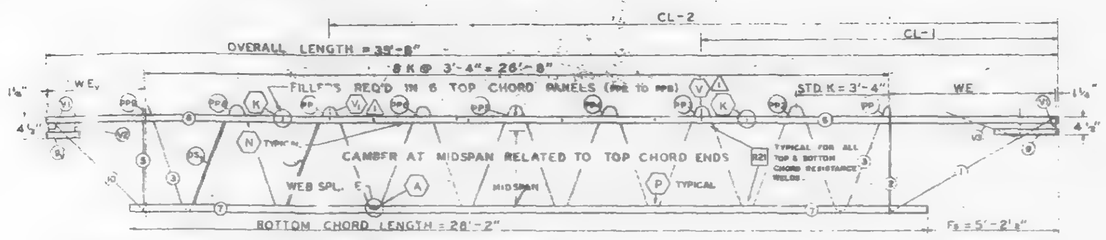
CL 1	CL 2	CL 3	CL 4	CL 5
12'-10 1/2"	28'-2 1/2"			5'-2 1/2"

END STIFFENER						WEB DS1F				WEB DS2F				DOUBLE STRUT DS2E				
TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	PCS	DIA	LENGTH	TYPE STEEL	PCS	DIA	LENGTH	
A242	098	4 5/8	A242	098	7 8 3/4"									A242	2	1 5/8	6 3/4	△

FLOOR SYS 32713 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A B

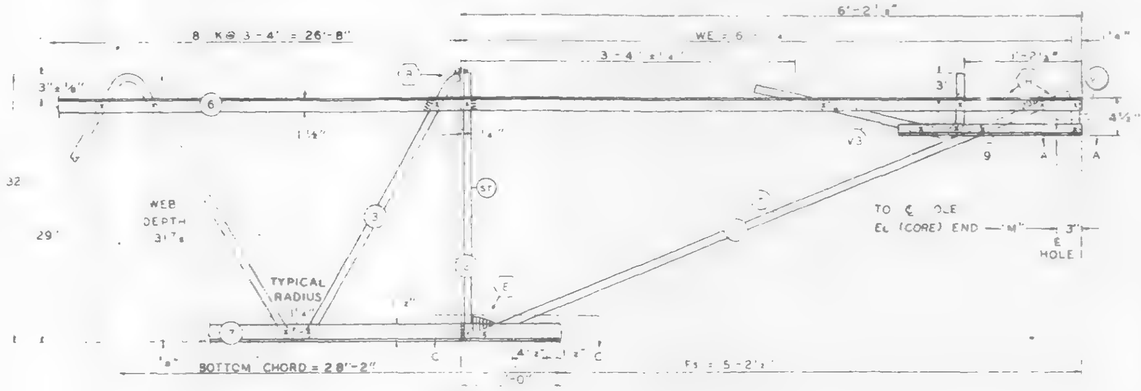
DESIGN DRAWING NO.
DRAWN BY
DATE FEB 28 1968
CHECKED BY J.D PAUL IN CHARGE
DATE FEB 28, 1968
PROD. DE
SHEET

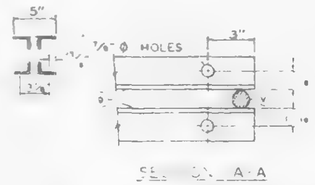
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △	7/8"	± 1/8"
DESIGN DEPTH	29"	± 1/16"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	35'-8"	± 3"
WEB DEPTH	31 7/8"	± 4"

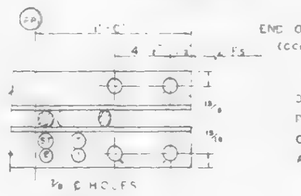


E$_L$ END (CORE) TRUSS ELEVATION E$_S$ END (COLUMN)

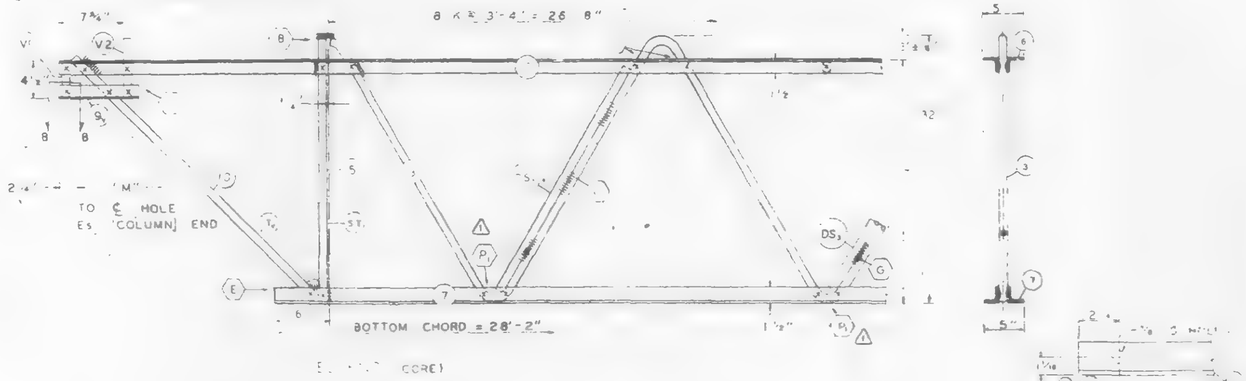
ALL PANEL POINTS RESISTANCE WELDED (▪).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291△ AND ST292.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ex. (P)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ex. |R2I|.







DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



△	6-22-68	AS NOTED	TMG
NO	DATE	REVISION	BY

REF DRWGS

7-ABI-12	4-1-68
7-ABI-52	2-15-68
7-AB4-50 & 50.2	10-20-67
7-ABI-53	4-1-68
7-AB4-505	10-20-67

PAINT
PAINTED ELECTROSTATIC
REF. NO.

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	V ℄ HOLES	CONNECTION FILLERS △		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF ℄	NO	DIA		NO.	DIA	LENGTH
C32T13-35B	6	A242	2"x1½"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3	A242	.098	49'-10"	8 @ 3'-4"=26'-8"	6	.098	35'-2⅝"	2	.98	3"

E$_S$ END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2	MK V3 DIA	MK V3 LENGTH
	C32T13-35B	9	A242	2"x1½"x.025	1'-10"	6'-1¼"		A242	.098	6'-5"	2	A242	.098	2'-7⅞"	A242	.098	4⅝"	A242	6	2'-9½"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10.7"	26'-2⅛"			5'-2⅛"

E$_L$ END (CORE)

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER								WEB "DS10"					WEB "DS2"					DOUBLE STRUT "DS2"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH
C32T13-35B	9	A242	2"x1½"x.025	10"	2'-8½"10	A242	.098	3'-6 1/4"	5	A242	.098	2'-7⅞"	A242	.098	4⅝"	A242	.098	7⅜"	—	—	—	—	—	—	—	—	—	—	—	—	—	DS2	2	A242	.75	2'-8½"

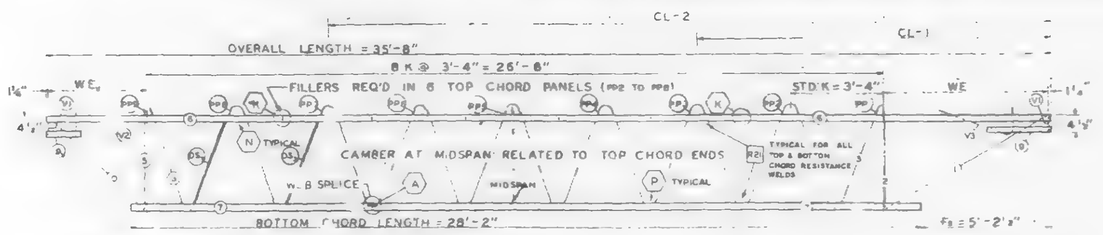
FABRICATION BY	LACLEDE STEEL COMPANY
FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY	FOR PONYA — DATE 6/21/68
APPROVED FOR FABRICATION BY	FOR FABRICATOR — DATE
DETAILED BY	A.C. WEBER
DESIGN DRAWING NO	7-ABI-12 — PLATE 1
DRAWN BY	— DATE FEB 28, 1968
CHECKED BY	J.R. PAUL — DATE FEB 28, 1968
FABRICATION CONT. NO.	WTC 221
IN CHARGE OF	PROD. DEV.
SHEET NO	ST213

STEEL TRUSS DETAILS
FOR
A.W. TRUSS CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T13 35'-8" OVERALL

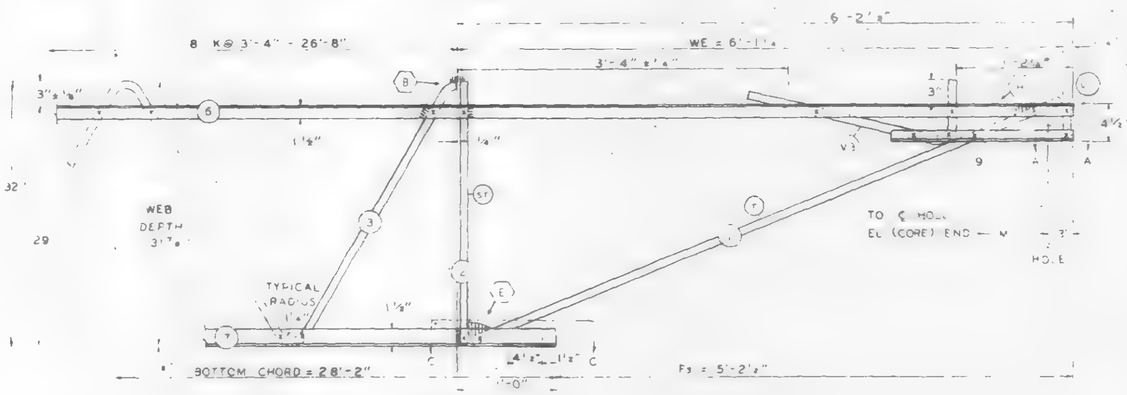
WORLD TRADE CENTER TOWERS A-B

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	0/8"	± 3/8"
DESIGN DEPTH	28"	-0 1/16"
PANEL "K"	3'-4"	± 1/64"
OVERALL LENGTH	35'-8	± 3/8"
WEB DEPTH	3	± 1/4"

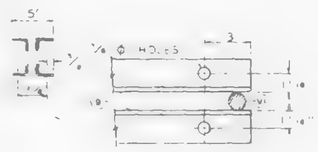


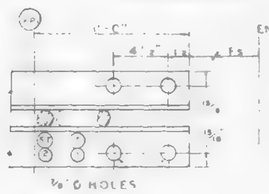
ES END (CORE) — TRUSS ELEVATION — ES END (COLUMN)

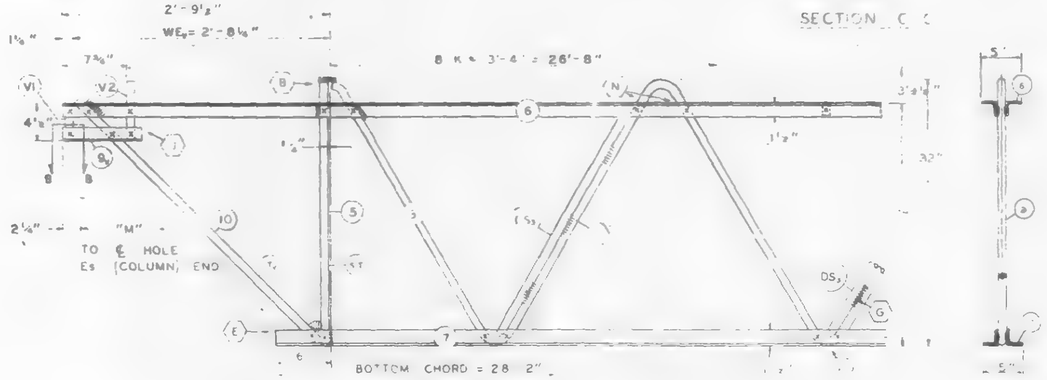
ALL PANEL POINTS RESISTANCE WELDED (×).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R21.



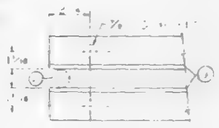
ES END (COLUMN)







ES END (WEB)



REF DRWGS	
7-AB1-12	4-1-68
7-AB1-52	2-15-68
7-AB4-50 & 502	10-20-67
7-AB1-53	4-1-68
7-AB4-503	10-20-67

PAINT
LACLEDE ELECTROCOAT
SPEC NO. [illegible]

TRUSS DESIGNATION	BOTTOM CHORD TWO ANGLES				TOP CHORD TWO ANGLES				MAIN WEB "N"					"M"		TRUSS [illegible]
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	WEB SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	E HOLES
32T13 358	F	A242	6" x 4" x .625	35'-8"	7	A242	2"x11 1/2"x.025	28'-2"	3	A242	.098	49'-10"	8	6	.098	35' 2 3/8

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V3		
		MK	TYPE STEEL	ANGLE SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
ES END	32T13 358	1	A242	2"x11 1/2"x.025		6'-1 1/4"	4	A242	.098	[illegible]	2	A242	.098	2'-7 3/8"	A242	.098	4 3/8"	[illegible]	[illegible]	[illegible]

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "DS10"					WEB "DS8"					DOUBLE STRUT DS2				
		MK	TYPE STEEL	ANGLE SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH
ES END	32T13 358	1	A242	2"x11 1/2"x.025	1'-0"	2'-8 1/4"	3	A242	.098	3'-6 1/4"	5	A242	.098	2'-7 3/8"	A242	.098	4 3/8"	A242	.098	7 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	DS8	2	A242	.75	2'-8 1/4"

12' 10 1/2"	26' 2 1/2"	—	—	—	5'-2 1/2"

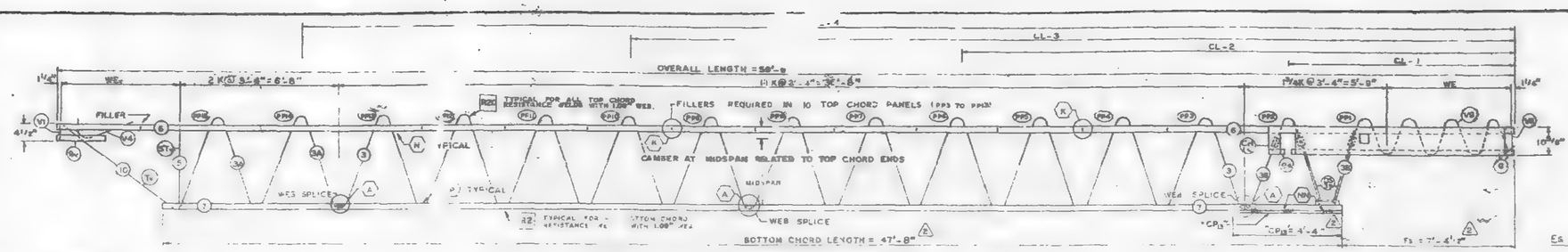
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS 32T13 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR PONYA — DATE 4/26/68
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR — DATE [illegible]
DETAILED BY A.C. WEBER

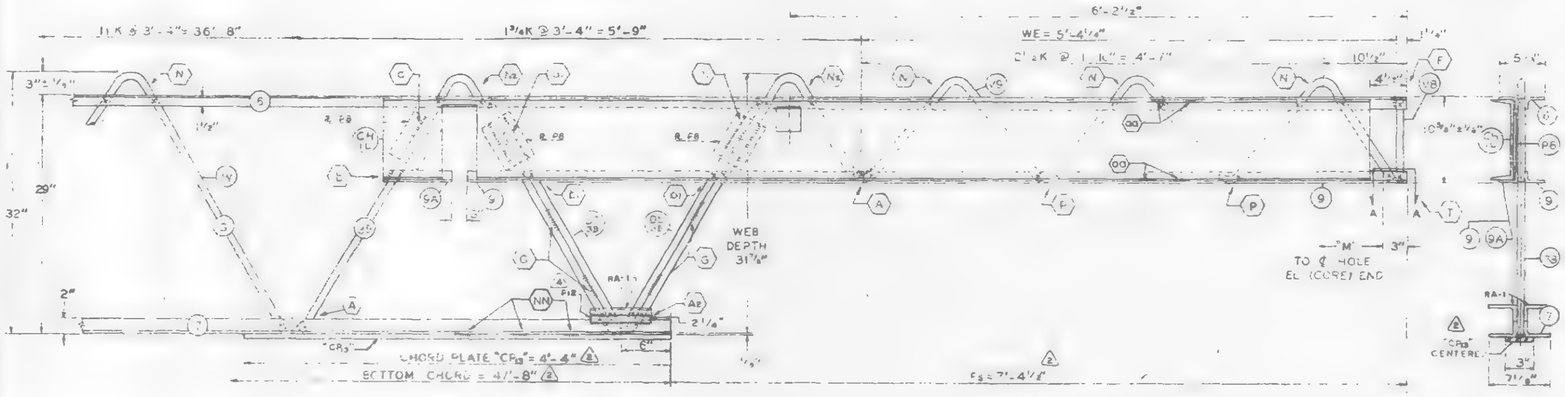
DESIGN DRAWING NO 7-AB1-12 — PLATE
DRAWN BY [illegible] — DATE FEB 26, 1968
CHECKED BY J.R. PAUL — DATE FEB 29, 1968
FABRICATION CONT NO WTC 221

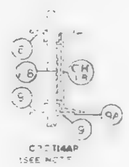
IN CHARGE OF PROJ. DES.
SHEET NO ST213



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/8"
PANEL "K"	3'-4"	±1/4"
OVERALL LENGTH	59'-9"	±3/8"
WEB DEPTH	31 7/8"	4"



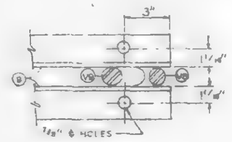


CP₂₈ PLACED AS SHOWN FOR C32T14AR.
CP₂₈ PLACED AS SHOWN FOR C32T14AL.

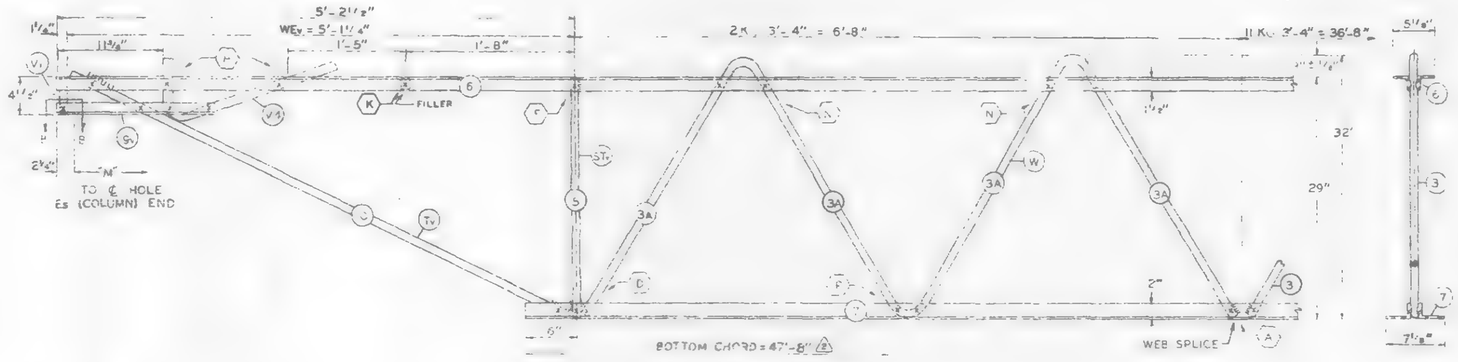
ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MIG).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD LENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST401.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

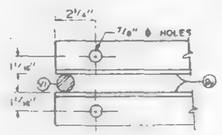
NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A





SECTION B-B

NO	DATE	REVISION	BY
4	12-10-68	AS NOTED	S.D.C.
3	11-7-68	AS NOTED	G.D.C.
2	10-17-68	9 NOTED	L.W.H.
1	10-3-68	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	6-13-68
7-AB4-17,17.2	10-4-68
3A-124	10-11-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD NO. ANGLES	TOP CHORD SIZE	TOP CHORD LENGTH	BOTTOM CHORD NO. ANGLES	BOTTOM CHORD SIZE	BOTTOM CHORD LENGTH	MARK	WEB "W" TYPE STEEL	WEB "W" A	WEB "W" LENGTH	WEB "W" NO. OF K	FILLER ¾" HOLES NO.	FILLER ¾" HOLES DIA.	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	TRUSS DATA L	CHANNEL PLATES MK	CHANNEL PLATES TYPE STEEL	CHANNEL PLATES FCT	CHANNEL PLATES SIZE	CHANNEL PLATES LENGTH	REINFORCING ANGLES MK	REINFORCING ANGLES TYPE STEEL	REINFORCING ANGLES ANGLE SIZE	REINFORCING ANGLES (2 REQ'D) LENGTH	REINFORCING ANGLES NO.	SPECIAL PLATES TYPE STEEL	SPECIAL PLATES SIZE	SPECIAL PLATES (2 REQ'D) LENGTH
C32T14AL-599	A242	2"x1½"x.25"	59'-9"	A36	3"x2"x.37"	47'-8"	W1	A36	10'-7½"	11'-9"	3 @ 3'-4" = 10'-0"	11	1.09	A36	3"x.25"	59'-3¾"	PL	A36	3	44.39	5'-1½"	RA1	A36	5"x3½"x.37"	7'-1½"	12	A36	7"x.5"	7'-1½"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES POS LENGTH	WE	DIAGONAL STRUT MK	DIAGONAL STRUT TYPE STEEL	DIAGONAL STRUT DIA	DIAGONAL STRUT LENGTH (2 REQ'D)	CHORD PLATE MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	END STIFFENER MK V8 TYPE STEEL	END STIFFENER MK V8 LENGTH	END STIFFENER MK V9 TYPE STEEL	END STIFFENER MK V9 LENGTH	END STIFFENER MK V10 TYPE STEEL	END STIFFENER MK V10 DIA	END STIFFENER MK V10 LENGTH	CHANNEL (SEE NOTE #2) MK	CHANNEL (SEE NOTE #2) TYPE STEEL	CHANNEL (SEE NOTE #2) CHANNEL SIZE	CHANNEL (SEE NOTE #2) LENGTH
ES END	C32T14AL-599	9	A242	2"x1½"x.25"	8'-5" 8'-7½"	5'-4¼"	A3	A242	1.14	2'-6¾"	CP	A36	3"x.25"	4'-4"	A242	1.14	A242	1.14	10'-½"	A242	1.14	8'-3⅛"	A36 A36	10 C 30 10 C 30	10'-0" 10'-0"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT MK	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL ST. STRUT MK	VERTICAL ST. STRUT TYPE STEEL	VERTICAL ST. STRUT DIA	VERTICAL ST. STRUT LENGTH	STIFFENER MK V1 TYPE STEEL	STIFFENER MK V1 DIA	STIFFENER MK V1 LENG	STIFFENER MK V2 TYPE STEEL	STIFFENER MK V2 DIA	STIFFENER MK V2 LENGTH	STIFFENER MK V4 TYPE STEEL	STIFFENER MK V4 DIA	STIFFENER MK V4 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH
	EL END	C32T14AL-599	9x	A242	2"x1½"x.25"	1'-7"	5'-4¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅞"	A242	1.14	4'-3"	—	—	—	A242	1.14	2'-2½"	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANSVERSES				
CL-1	CL-2	CL-3	CL-4	ES
3'-6"	22'-10"	36'-2⅛"	47'-5½"	59'-4¾"

James W. Hutchison
FOR P.O.N.Y.& N.J.
12/4/68

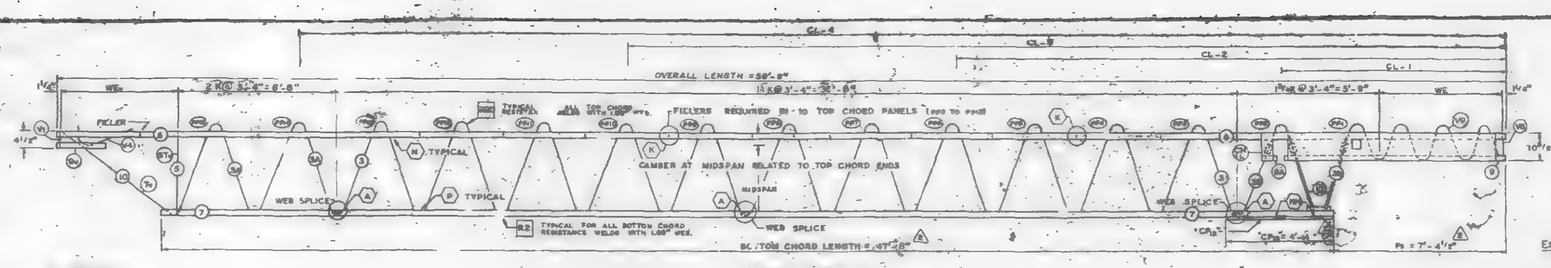
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

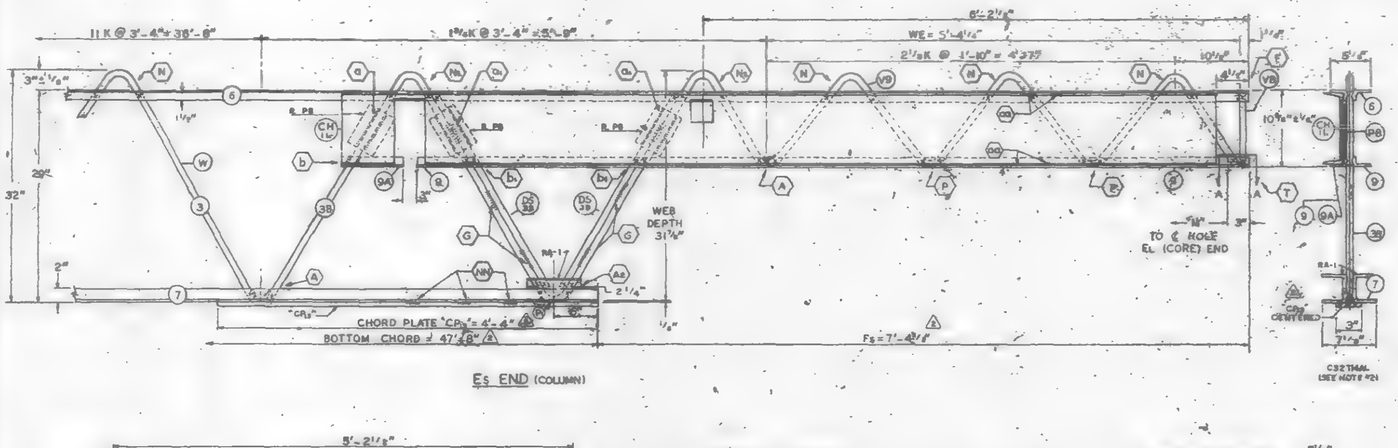
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT WATSON, ILLINOIS		DESIGN, DRAWING NO. 7-AB1-13	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.& N.J.	DATE	DRAWN BY gdc DATE SEPT. 6, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHUBA DATE SEPT. 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST 214AL



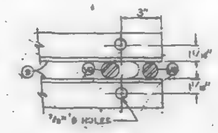
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	32"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

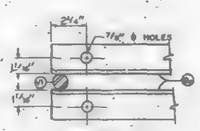


Es END (COLUMN)

CH$_{TYP}$ PLACED AS SHOWN FOR C32T14AR.
CH$_E$ PLACED AS SHOWN FOR C32T14AL.



SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (ARC).
LETTERS IN HEXAGON INDICATE WELD DETAIL. ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2

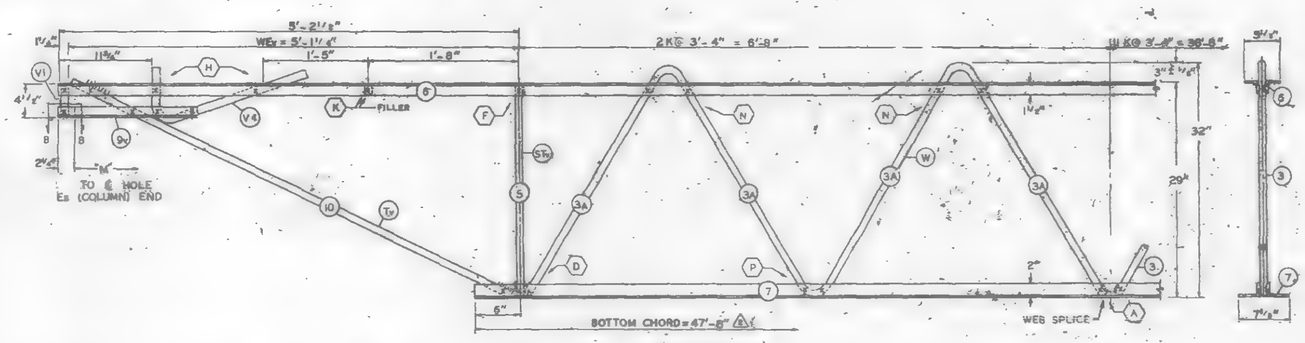
ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR. TRUSSES WITH CHANNEL CH$_{TYP}$ AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

Δ	10-17-88	AS NOTED	LWH
1	10-3-88	GENERAL	G.D.C.
MARK	DATE	REVISION	BY

REF. DRWG.

7-AB1-13	8-15-88
7-AB1-54	8-15-88
7-AB1-53, 55	7-22-88
7-AB3-2	1-3-88
7-AB4-24	8-15-88
7-AB4-17, 17.2	8-15-88
SA-124	8-1-88

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001



EL END (CORE)

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE			TRUSS DATA	CHANNEL PLATES				REINFORCING ANGLES (R WELD)			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF ℄	NO.	DIA.	MK	TYPE STEEL	SIZE	LENGTH		MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T14AL-599	6	A242	2" x 1 1/2" x .25"	59'-9"	7	A36	3" x 2" x .37"	47'-8"	W1	A242	1.14	1'-2 7/8"	2	11	1.09	59'-3 5/8"	—	—	—	—		P6	A36	3	4"	5'-1 1/2"	9W	A36	3" x 2" x .37"	7 1/2"
									W2	A242	1.14	1'-2 7/8"	2																
									W3	A242	1.14	1'-2 7/8"	2																
									W4	A242	1.14	1'-2 7/8"	2																
									W5	A242	1.14	1'-2 7/8"	2																
									W6	A242	1.14	1'-2 7/8"	2																

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE Δ			END STIFFENER									CHANNEL (SEE NOTE #2)			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V6 TYPE STEEL	MK. V6 DIA.	MK. V6 LENGTH	MK. V6 TYPE STEEL	MK. V6 DIA.	MK. V6 LENGTH	MK. V(6) TYPE STEEL	MK. V(6) DIA.	MK. V(6) LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T14AL-599	9A	A242	2" x 1 1/2" x .25"	1	1'-7"	5'-4 1/2"	5	A242	1.14	2'-6 7/8"	CP$_E$	A36	3" x .25"	4'-4"	A242	1.14	10'-1 5/8"	A242	1.14	8'-3 7/8"	—	—	—	CH$_E$	A36	10" x 35	10'-0"
																									CH$_{TYP}$	A36	10" x 35	10'-0"

CORE END	Es	TRUSS DESIGNATION	BEARING ANGLES				WE$_V$	DIAGONAL "T$_V$" STRUT				VERTICAL "ST$_V$" STRUT				END STIFFENER						DOUBLE STRUT			DOUBLE STRUT		
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V6 TYPE STEEL	MK. V6 DIA.	MK. V6 LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	END	C32T14AL-599	9W	A242	2" x 1 1/2" x .25"	1'-7"	5'-4 1/2"	10	A242	1.14	5'-6 7/8"	5	A242	1.14	2'-6 7/8"	A242	1.14	4 3/8	—	—	—	A242	1.14	2'-6 7/8"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-8 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"	

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

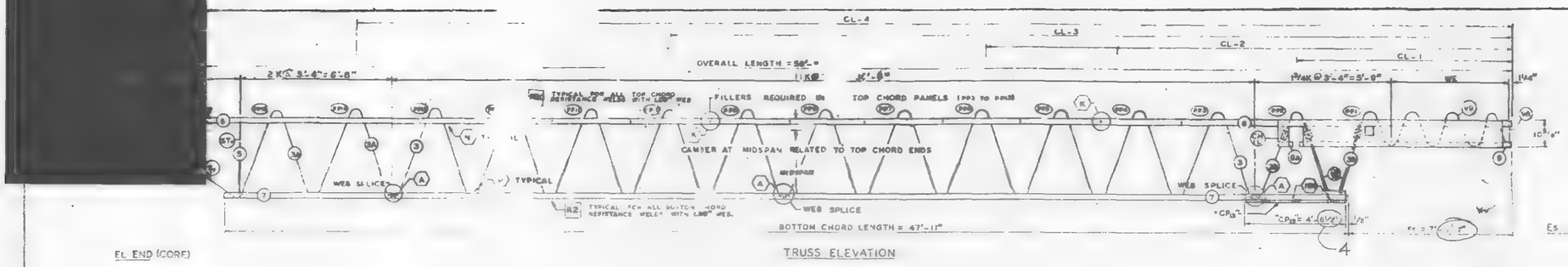
FLOOR TRUSS C32T14AL X 59'-9" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

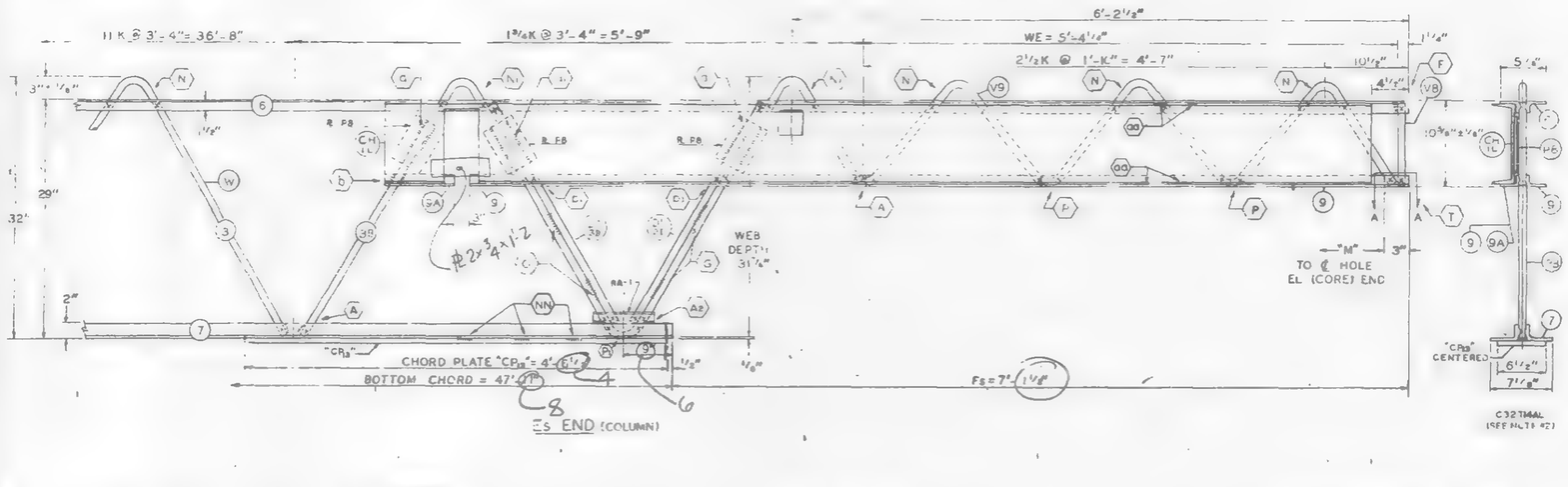
FABRICATION BY LACLEDE STEEL COMPANY

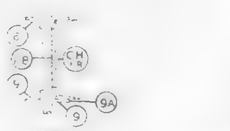
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-13	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 10/23/61	DRAWN BY: gdc DATE SEPT. 9, 1988	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE SEPT. 9, 1988	IN CHARGE OF PROD. DEV.
DETAILED BY A.CARL WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO ST 214AL

[redacted]



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

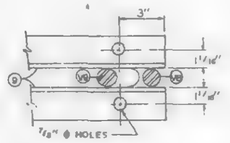




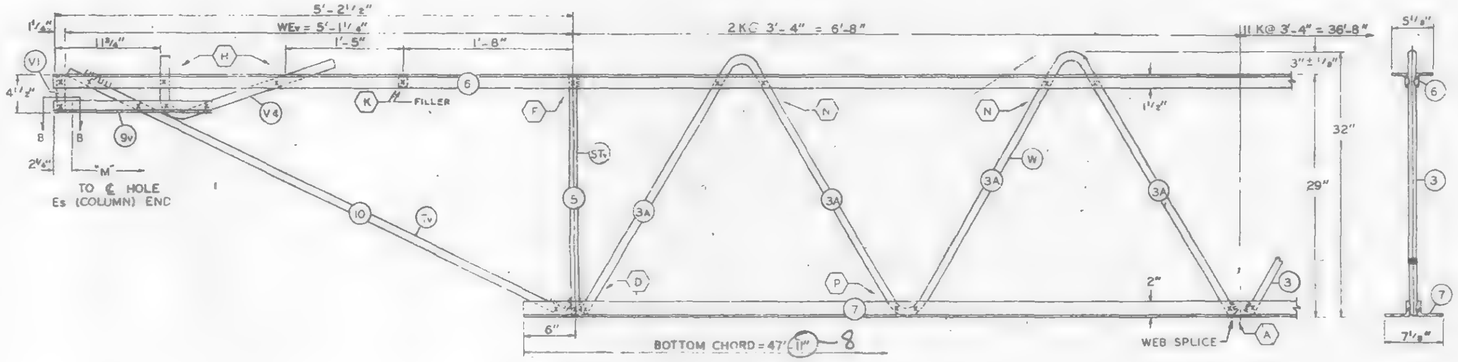
CP13 PLACED AS SHOWN FOR C32T14AR.
CP13 PLACED AS SHOWN FOR C32T14AL.

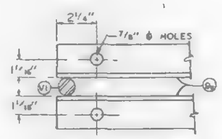
ALL PANEL POINTS RESISTANCE WELDED (RW) ARC WELDS INDICATED AT SLOTTED ANGLES AND AT BOTTOM CHORD W.P. SPLICES UNLESS LETTERS IN HEXAGON INDICATE WELD DETAIL. LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH QUALIFIED IN THE QUALITY CONTROL PROGRAM, AS RI. ALL WELD DETAILS ARE SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL ETC. SHOWN ON SHEET ST294 ARE SHOWN ON SHEET ST283
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2
DETAILS & ELEVATIONS SHOWN FOR C32T14AL ALSO ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CHORD BEARING ANGLE 9A PLACED ON OPPOSITE SIDE OF SHOWN.



SECTION A-A





SECTION B-B

NO.	DATE	REVISION	BY
1	10-3-67	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	8-15-68
7-AB1-54	8-15-68
7-AB1-53,55	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17,17.2	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TOP CHORD TWO ANGLES TYPE STEEL	TOP CHORD TWO ANGLES CHORD SIZE	TOP CHORD TWO ANGLES LENGTH	BOTTOM CHORD TWO ANGLES MK.	BOTTOM CHORD TWO ANGLES TYPE STEEL	BOTTOM CHORD TWO ANGLES CHORD SIZE	BOTTOM CHORD TWO ANGLES LENGTH	MAIN WEB "W" MK.	MAIN WEB "W" TYPE STEEL	MAIN WEB "W" DIA.	MAIN WEB "W" LENGTH	MAIN WEB "W" NO OF K	FILLER NO.	FILLER DIA.	"M" C/C HOLES	CHORD PLATE MK.	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	TRUSS DATA		CHANNEL PLATES MK.	CHANNEL PLATES TYPE STEEL	CHANNEL PLATES PCS.	CHANNEL PLATES SIZE	CHANNEL PLATES LENGTH	REINFORCING ANGLES (2 REQ'D) MK.	REINFORCING ANGLES TYPE STEEL	REINFORCING ANGLES SIZE	REINFORCING ANGLES LENGTH
C32T14AL-599	6	A242	2"x1 1/8"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-11"	3	A242	1.09	8'-6 1/4"	K@3'-4"=8'-6"	11	1.09	59'-3 3/4"	—	—	—	—			PB	A36	3	4"x.38"	5'-1"	BA-1	A242	2"x1 1/2"x.25"	7'-1/2"
									3A	A242	1.14	10'-7 1/8"	3@4'-0"=12'-0"																		
									3B	A242	1.14	10'-7 1/8"	3@4'-0"=12'-0"																		

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES PCS.	BEARING ANGLES LENGTH	WE	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH (2 REQ'D)	CHORD PLATE MK.	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	END STIFFENER MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	CHANNEL (SEE NOTE #2) MK.	CHANNEL TYPE STEEL	CHANNEL SIZE	CHANNEL LENGTH
COLUMN END	C32T14AL-599	5	A242	2"x1 1/2"x.25"	—	6'-5"	5'-4 1/4"	10	A242	1.14	2'-6 3/4"	CP	A36	6'-6 1/2"x37"	4'-6 1/2"	A242	1.14	10'-1 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH1	A36	10 C 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	6'-5"																			CH2	A36	10 C 30	10'-0"

CORE END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WE	DIAGONAL "D" STRUT MK.	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA.	DIAGONAL "D" STRUT LENGTH	VERTICAL "SV" STRUT MK.	VERTICAL "SV" STRUT TYPE STEEL	VERTICAL "SV" STRUT DIA.	VERTICAL "SV" STRUT LENGTH	END STIFFENER MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH
	C32T14AL-599	9B	A242	2"x1 1/2"x.25"	1'-7"	5'-11"	10	A242	1.14	5'-6 1/4"	5	A242	1.14	2'-4 3/4"	A242	1.14	4'-3 7/8"	—	—	—	A242	1.14	2'-2 3/4"	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 3/4"	

FLOOR TRUSS DETAILS

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL PLANT

FABRICATED AT MADISON, ILLINOIS — SHOP DRAWING NO. 7-AB1-13

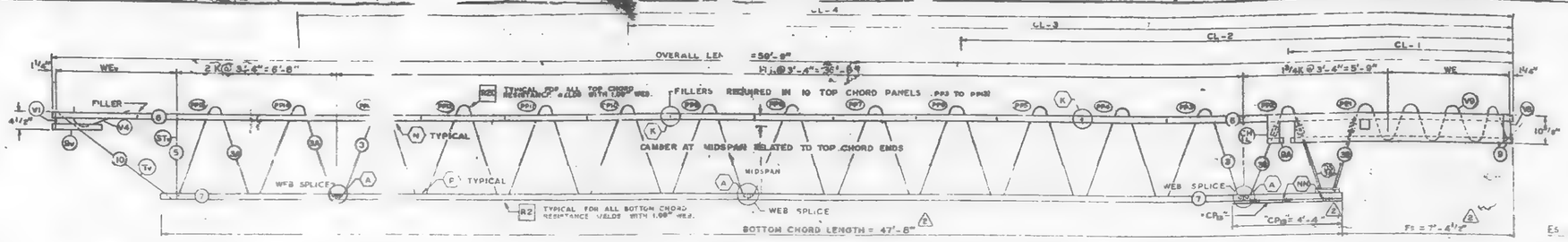
APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A. — DATE _____ — DRAWN BY GJC — DATE SEPT. 8, 1988

APPROVED FOR FABRICATION BY _____ FOR FABRICATOR — DATE _____ — CHECKED BY T.M.CHUKA — DATE SEPT. 9, 1988 — IN CHARGE OF PROD. DEV. _____

DETAILED BY A. CARL WEBER — FABRICATION CONT. NO. WTC 221 — SHEET NO. ST 214AL

FABRICATION REQUIREMENTS

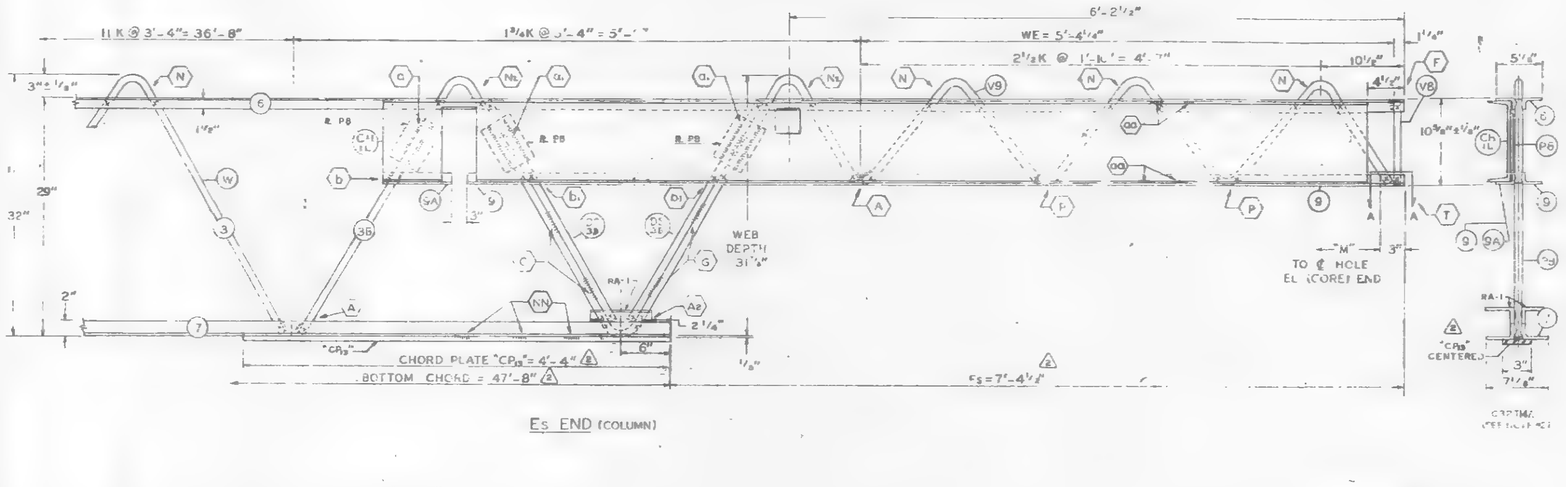
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



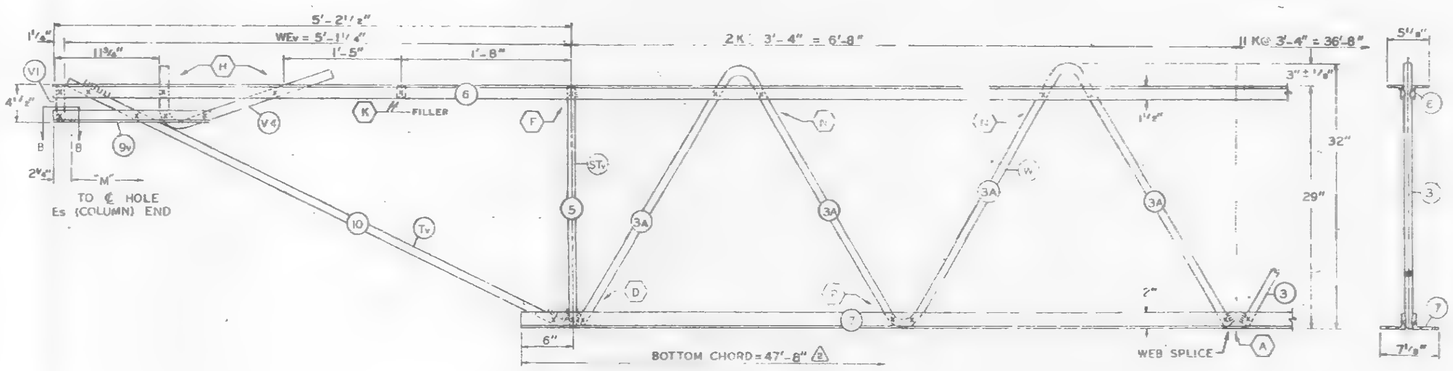
EL END (CORE)

TRUSS ELEVATION

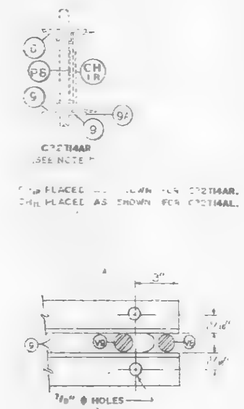
Es END (COLUMN)



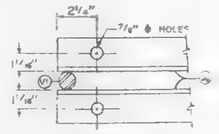
Es END (COLUMN)



EL END (CORE)



SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (11/16" MIN.).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (RI).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE *2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO.	DATE	REVISION	BY
3	11-7-68	AS NOTED	G.D.C.
2	10-17-68	AS NOTED	L.W.N.
1	10-3-68	GENERAL	G.D.C.

3 REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17,17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

*PAINT
LAGLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	3 LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF ℄	FILLER NO.	FILLER DIA.	"M" ℄ HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK.	TYPE STEEL	SIZE 3	LENGTH
C32T14AL-599	6	A242	2"x1 1/2"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3	A36	1.09	88'-6 1/4"	11K@3'-4"=36'-8"									PB	A36	3	4"x.39"	5'-7 1/2"	PB-1	A36	3"x2"x.37"	7 1/2"
									3A	A242	1.14	12'-5 3/4"	2K@3'-4"=6'-8"																	
									3B	A242	1.14	10'-7 3/8"	1 3/4K@3'-4"=5'-9"																	

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/4"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE 2 MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER (SEE NOTE *2) MK. V6 TYPE STEEL	DIA.	LENGTH	MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL (SEE NOTE *2) MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
END	C32T14AL-599	9	A242	2"x1 1/2"x.25"	2	5'-5"	5'-4 1/4"	8	A242	1.14	2'-6 1/2"	CP	A36	3"x.25	4'-4"	A242	1.14	10'-1 1/2"	A242	1.14	8'-3 1/8"	—	—	—	CHR	A36	10 C 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	2	5'-5"																			CHR	A36	10 C 30	10'-0"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL Tv STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL St STRUT MK.	TYPE STEEL	DIA.	LENGTH	END TIFFENER V6 MK. V6 TYPE STEEL	DIA.	LENGTH	V8 MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
END	C32T14AL-599	9v	A242	2"x1 1/2"x.25"	1'-7"	5'-11 1/16"	10	A242	1.14	5'-6 1/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	3/8"	—	—	—	—	—	—	—	—	—	—	—

3

*2 NOTE

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE *2)
WORLD TRADE CENTER TOWERS A & B

FABRICATED BY LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 11/18/68
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
DETAILED BY E. CARL WEBER

DESIGN DRAWING NO. 7-AB1-13 — PLATE
DRAWN BY — DATE SEPT. 9, 1968
CHECKED BY T.M.CHURA — DATE SEPT. 9, 1968
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO. W.T.C. 221
SHEET NO. ST 214AL

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	32"	± 1/4"
PANEL "K"	6"	± 1/4"
OVERALL LENGTH	...8"	± 3/...
WEB DEPTH	31 7/8"	± 1/...

TRUSS ELEVATION

EL END (CORE)

ES END (COLUMN)

Double Bars – Different R-Values?
(Full strength of both web bars to be Developed)

ALL PANEL POINTS RESISTANCE WELDED (RW) ARC WELDS AS LATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES UNLESS. LETTERS AS IN HEXAGON INDICATE WELD DETAIL, ie... (A) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH (PER INCH) IN THE QUALITY CONTROL PROGRAM, ie... R1
ALL WELD DETAILS SHOWN ON SHEETS ST294, ST295, ST 293 AND ST 283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 410.
CHORD PLATE DETAILS SHOWN ON SHEET ST 204
SEE SHEET ST 295 FOR V1 & V4 DETAILS.
SEE SHEET ST 294 FOR V8 & V9 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR EXCEPT WITH CHANNEL CHIR AND BEARING ANGLE BA PLACED ON OPP. HAND AS SHOWN

C32T14AR (SEE NOTE #2)

CHA PLACED AS SHOWN FOR C32T14AR.
CHL PLACED AS SHOWN FOR C32T14AL.

C32T14AL (SEE NOTE #2)

SECTION A-A

SECTION B-B

REF. DRWG.

7-A81-13	8-15-68
7-A81-54	8-15-68
7-A81-53,55	7-22-68
7-A83-2	1-3-68
7-A83-24	8-15-68
7-A84-17,172	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"W" HOLES	CHORD PLATE				TRUSS DATA	CHANNEL PLATES				
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH		MK	TYPE STEEL	PCS.	SIZE	LENGTH
C32T14AL-599	6	A242	2"x1 1/2"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-8"	1	A36	1.14	74'-5"	18 @ 2'-4" = 42'-0"	11	1.09	50'-3 3/16"	—	—	—	—		PB	A36	3	4 1/2" x 39"	6'-0"
									2	A242	1.14	10'-7 1/4"	2 @ 2'-4" = 4'-8"												
									3	A242	1.14	10'-7 1/4"	2 @ 2'-4" = 4'-8"												
									3A	A242	1.14	10'-7 1/4"	2 @ 2'-4" = 4'-8"												
									3B	A242	1.14	10'-7 1/4"	2 @ 2'-4" = 4'-8"												

4 1/2 x .39
5 1/2"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER									CHANNEL (SEE NOTE #2)		
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (SEE NOTE)	MK	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T14AL-599	8	A242	2"x1 1/2"x.25"	2	8'-5"		5	A242	1.14	2'-6 3/4"	6	A36	6"x3/8"	4'-4"	A242	1.14	10 1/8"	—	1.14	8'-3 7/8"	—	—	—	CL	A36	10 C 30	10'-0"
		8A	A242	2"x1 1/2"x.25"	1	8'-5"																			CHR	A36	10 C 30	10'-0"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES					WE	DIAGONAL "Td" STRUT				VERTICAL "St" STRUT				END STIFFENER									DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE		LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T14AL-599	9	A242	2"x1 1/2"x.25"		1'-7"		10	A242	1.14	5'-6 1/4"	5	A242	1.14	2'-4 3/4"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—	—	—

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDED CHANNEL DETAILS	8-15-68
2	ADDED CHANNEL DETAILS	8-15-68
3	ADDED CHANNEL DETAILS	8-15-68
4	ADDED CHANNEL DETAILS	8-15-68
5	ADDED CHANNEL DETAILS	8-15-68
6	ADDED CHANNEL DETAILS	8-15-68
7	ADDED CHANNEL DETAILS	8-15-68
8	ADDED CHANNEL DETAILS	8-15-68
9	ADDED CHANNEL DETAILS	8-15-68
10	ADDED CHANNEL DETAILS	8-15-68
11	ADDED CHANNEL DETAILS	8-15-68
12	ADDED CHANNEL DETAILS	8-15-68
13	ADDED CHANNEL DETAILS	8-15-68
14	ADDED CHANNEL DETAILS	8-15-68
15	ADDED CHANNEL DETAILS	8-15-68
16	ADDED CHANNEL DETAILS	8-15-68
17	ADDED CHANNEL DETAILS	8-15-68
18	ADDED CHANNEL DETAILS	8-15-68
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28	ADDED CHANNEL DETAILS	8-15-68
29	ADDED CHANNEL DETAILS	8-15-68
30	ADDED CHANNEL DETAILS	8-15-68
31	ADDED CHANNEL DETAILS	8-15-68
32	ADDED CHANNEL DETAILS	8-15-68
33	ADDED CHANNEL DETAILS	8-15-68
34	ADDED CHANNEL DETAILS	8-15-68
35	ADDED CHANNEL DETAILS	8-15-68
36	ADDED CHANNEL DETAILS	8-15-68
37	ADDED CHANNEL DETAILS	8-15-68
38	ADDED CHANNEL DETAILS	8-15-68
39	ADDED CHANNEL DETAILS	8-15-68
40	ADDED CHANNEL DETAILS	8-15-68
41	ADDED CHANNEL DETAILS	8-15-68
42	ADDED CHANNEL DETAILS	8-15-68
43	ADDED CHANNEL DETAILS	8-15-68
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48	ADDED CHANNEL DETAILS	8-15-68
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64	ADDED CHANNEL DETAILS	8-15-68
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67	ADDED CHANNEL DETAILS	8-15-68
68	ADDED CHANNEL DETAILS	8-15-68
69	ADDED CHANNEL DETAILS	8-15-68
70	ADDED CHANNEL DETAILS	8-15-68
71	ADDED CHANNEL DETAILS	8-15-68
72	ADDED CHANNEL DETAILS	8-15-68
73	ADDED CHANNEL DETAILS	8-15-68
74	ADDED CHANNEL DETAILS	8-15-68
75	ADDED CHANNEL DETAILS	8-15-68
76	ADDED CHANNEL DETAILS	8-15-68
77	ADDED CHANNEL DETAILS	8-15-68
78	ADDED CHANNEL DETAILS	8-15-68
79	ADDED CHANNEL DETAILS	8-15-68
80	ADDED CHANNEL DETAILS	8-15-68
81	ADDED CHANNEL DETAILS	8-15-68
82	ADDED CHANNEL DETAILS	8-15-68
83	ADDED CHANNEL DETAILS	8-15-68
84	ADDED CHANNEL DETAILS	8-15-68
85	ADDED CHANNEL DETAILS	8-15-68
86	ADDED CHANNEL DETAILS	8-15-68
87	ADDED CHANNEL DETAILS	8-15-68
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91	ADDED CHANNEL DETAILS	8-15-68
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93	ADDED CHANNEL DETAILS	8-15-68
94	ADDED CHANNEL DETAILS	8-15-68
95	ADDED CHANNEL DETAILS	8-15-68
96	ADDED CHANNEL DETAILS	8-15-68
97	ADDED CHANNEL DETAILS	8-15-68
98	ADDED CHANNEL DETAILS	8-15-68
99	ADDED CHANNEL DETAILS	8-15-68
100	ADDED CHANNEL DETAILS	8-15-68

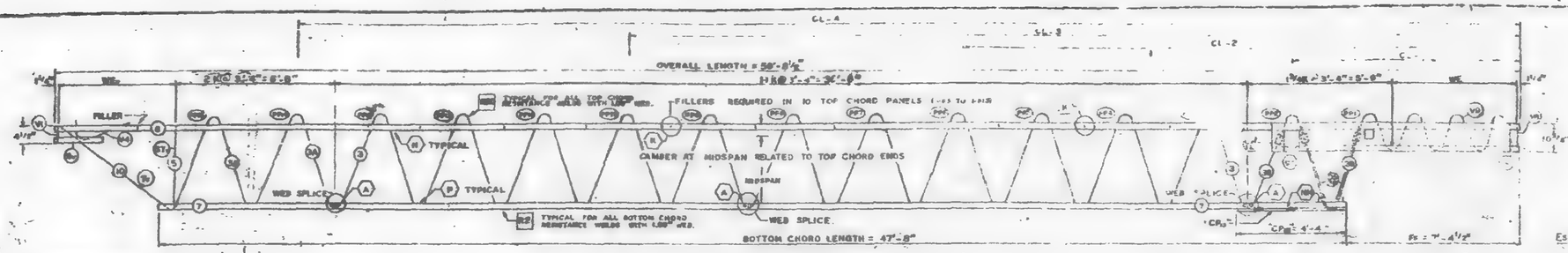
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER TOWERS A & B

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

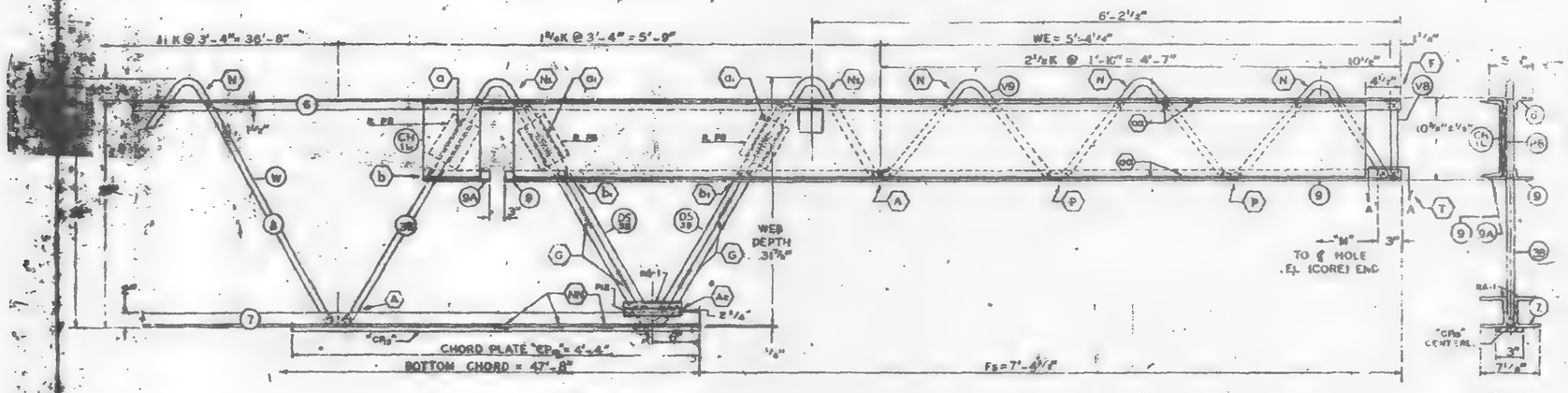
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY _____ FOR PONY A — DATE
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR — DATE
DETAILED BY [illegible] CHECKED BY

DESIGN BY 7-A81-13
DRAWN BY gdc DATE SEPT. 9, 1968
CHECKED BY [illegible] DATE SEPT. 9, 1968
FABRICATION CONT. NO. WTC 221
IN CHARGE OF PROJECT
SHEET NO. ST 214AL



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
SECTION DEPTH	29"	± 1/4"
PANEL LENGTH	3'-4"	± 1/4"
OVERALL LENGTH	50'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

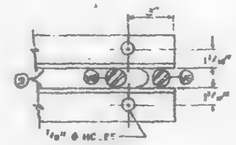


CP₁ PLACED AS SHOWN FOR C327T48B.
CP₂ PLACED AS SHOWN FOR C327T48BL.

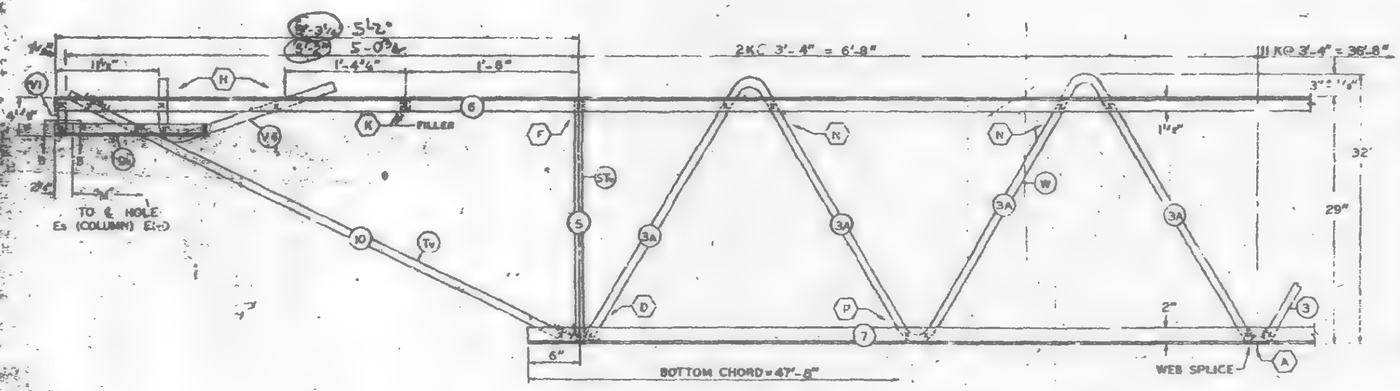
ALL PANEL POINTS RESISTANCE WELDED. (K).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST209, ST291, ST 293 AND ST 283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

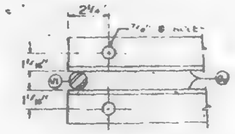
NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C327T48B TRUSSES ARE APPLICABLE TO C327T48BR TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AT CHORD.



SECTION A-A





SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-13	10-31-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-69
7-AB3-24	8-15-68
7-AB4-17	10-3-68
44-124	1-8-69
7-AB1-56	10-15-68
7-AB4-17.2	12-20-68

SCHLUNG-HELLE CHRISTIANSEN-ROBERTSON Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
By SJR

PAINT
LACLEDE ELECTROCOAT
SPEC. NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" ℄ HOLES	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA		CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES MK	TYPE STEEL	ANGLE SIZE	LG HEEL LENGTH	SPECIAL PLATES MK	TYPE STEEL	SIZE	LG HEEL LENGTH
32T48BL-50B8	6	A2	2"x 1½"x .25"	59'-8½"	7	A36	3"x 2"x .37"	47'-8"	A	A242	L14	W-31⅞"	K-2'-4" @ 3'-4"	11	1.09	50'-3½"	—	—	—	—			P6	A36	3	4x7.39#	5'-1"	P	A36	3"x 2"x .31"	7'-1"	P2	A36	4"x 3"	7'-1"

TRUSS DESIGNATION		BEARING ANGLES TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	CHANNEL (SEE NOTE #2) MK	TYPE & STEEL	CHANNEL SIZE	LENGTH
C327T48BL-50B8		A242		2	5'-4"	5'-4¼"	5	A242	L14	2'-8½"	C	A36	3½"x 2½"	4'-4"	V1	A242	L14	10½"	V2	A242	L14	8'-3⅞"	—	—	—	—	C1	A36	10" C 30	5'-4"

TRUSS DESIGNATION		BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	LENGTH
		A242	2½"x 1½"x .25"	1'-8"	5'-5½"	10	A242	L14	5'-6½"	5	A242	L14	2'-4½"	V1	A242	L14	4⅞"	—	—	—	—	A242	L14	2'-2½"	—	—	—

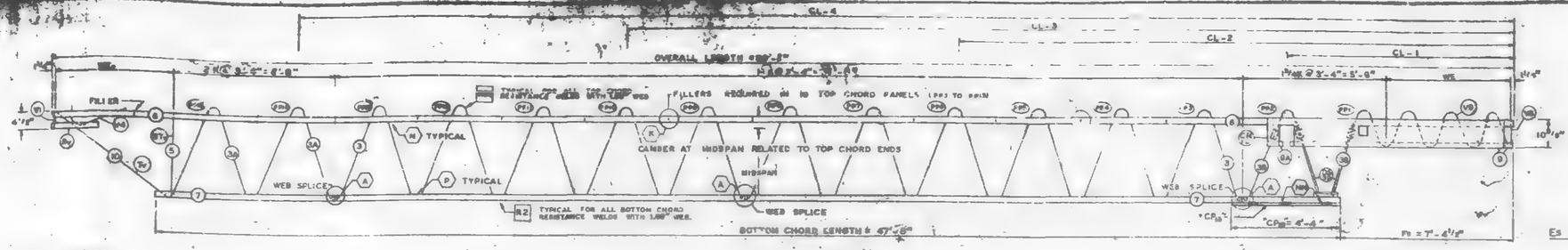
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	E
9'-6"	22'-10½"	36'-2⅝"	49'-6½"	7'-9"

FLOOR TRUSS DETAILS
FOR
AOB 3 TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C327T48BL x 50'-8½" LONG (SEE NOTE #2)
FOR TRADE CENTER TOWERS A & B

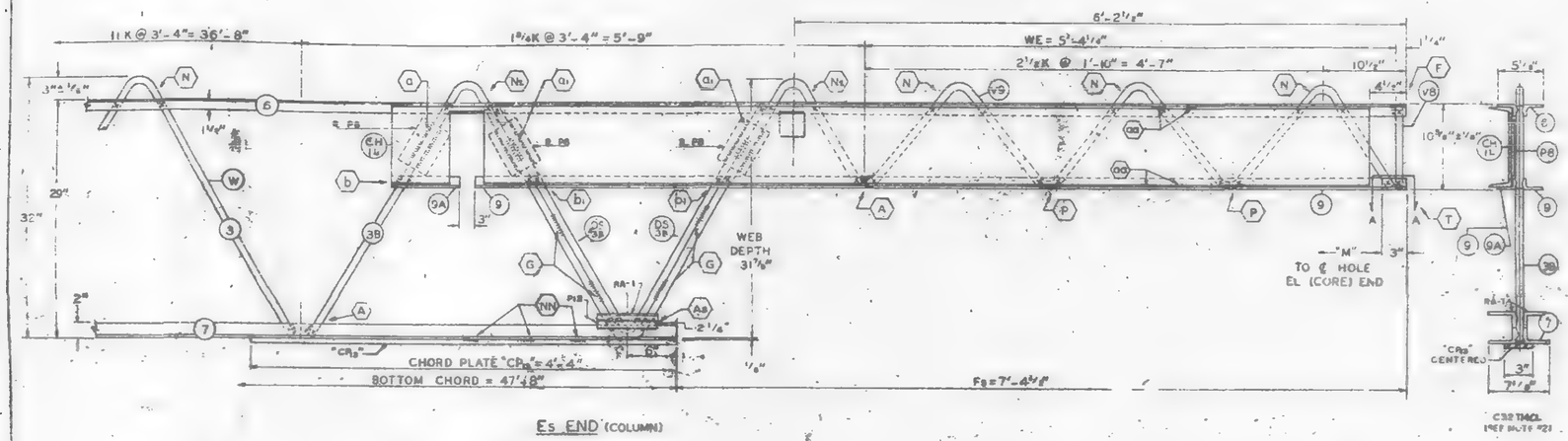
FABRICATION BY LACLEDE STEEL COMPANY

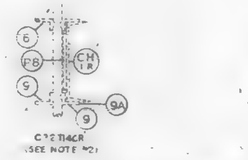
DRAWN BY [illegible] DATE APRIL 11, 1969
TRACED BY [illegible] DATE APRIL 11, 1969
CHECKED BY [illegible] DATE [illegible]
APPROVED BY [illegible] DATE [illegible]
LACLEDE STEEL CO.
DETAILED BY [illegible] CHECKED BY [illegible]
JOB NO. 221
IN CHARGE OF ENGINEERING
SHEET NO. ST 2481

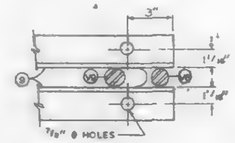


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "R"	5'-4"	± 1/4"
OVERALL LENGTH	96'-4"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





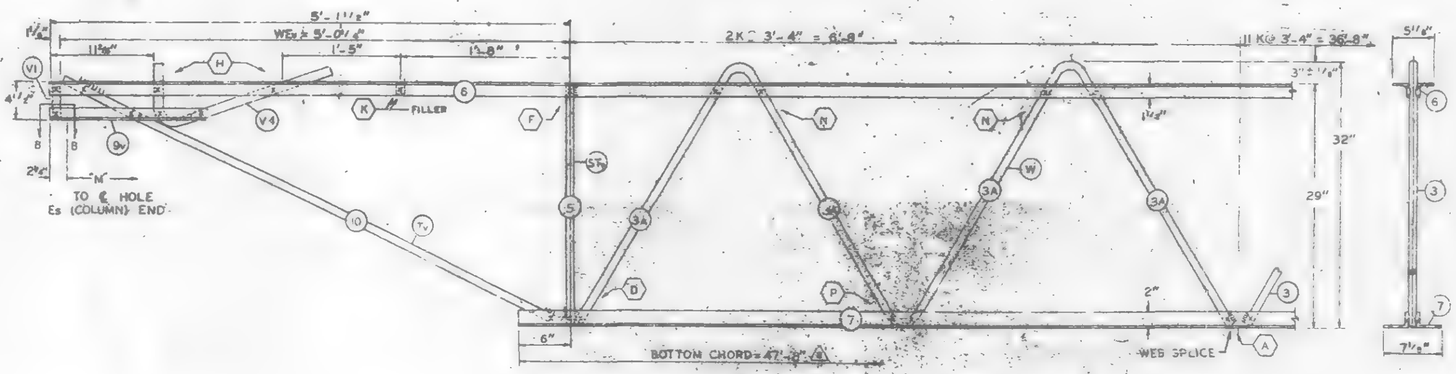


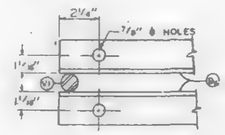
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (A).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 293 AND ST 283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14CR TRUSSES ARE APPLICABLE TO C32T14CL TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A, PLACED ON OPP. HAND AS SHOWN.





SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-A81-13	10-4-66
7-A81-54	11-25-68
7-A81-53	7-22-68
7-A83-2	1-3-68
7-A83-24	8-15-68
7-A84-17,17.2	10-4-66
SA-124	10-11-66
7-A81-55	10-15-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CHORD PLATE				TRUSS DATA		CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH			MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	LE REQ'D LENGTH	MK.	TYPE STEEL	SIZE	LE REQ'D LENGTH
C32T14CL-598	6	A242	2"x 1 1/8"x .25"	59'-8"	7	A36	3"x 2"x .37"	47'-8"	3	A36	L14	4'-4"	2K @ 3'-4" = 6'-8"	11	1.09	59'-6 1/2"	—	—	—	—			PB	A36	3	6"x 4"x .25"	5'-1 1/2"	9A	L6	3"x 2"x .37"	7'-7 1/2"	P$_B$	A36	PL 1"	P$_B$	7'-1 1/2"
									3A	A242	L14	10'-7 1/2"	11K @ 3'-4" = 36'-8"																					
									3B	A242	L14	10'-7 1/2"	11K @ 3'-4" = 36'-8"																					

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER										CHANNEL (SEE NOTE #2)			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8			MK. V9			MK. V10			MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
																TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH				
	C32T14CL-598	9	A242	2"x 1 1/8"x .25"	1	5'-6"	5'-4 1/16"	9	A242	1.14	2'-6 1/4"	CP$_B$	A36	3"x .25"	4'-4"	A242	1.14	10'1/2"	A242	1.14	8'-3 1/8"	—	—	—	CH$_R$	A36	10 C 30	10'-0"
		9A	A242	2"x 1 1/8"x .25"	1	5'-6"																			CH$_L$	A36	10 C 30	10'-0"

CORE END	TRUSS DESIGNATION	BEARING ANGLES				WE$_V$	DIAGONAL "T$_V$" STRUT				VERTICAL "ST$_V$" STRUT				END STIFFENER								DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V6			MK. V7			MK. V8									
															TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH							
	C32T14CL-598	9A	A242	2"x 1 1/8"x .25"	1'-6"	5'-0"	10	A242	1.14	3'-5 1/8"	5	A242	1.14	2'-4 1/8"	A242	1.14	4'-1 1/8"	—	—	—	A242	1.14	5'-2 1/4"	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/16"

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14CL x 59'-8" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

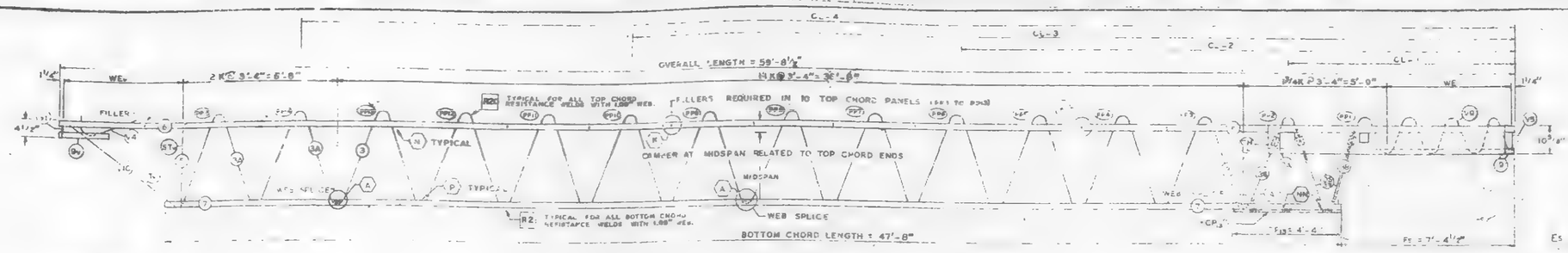
FABRICATED AT MADISON, ILLINOIS — DESIGN DRAWING NO. 7-A81-13 — PLATE

APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE 4/69 — DRAWN BY — DATE MAR 28 1969

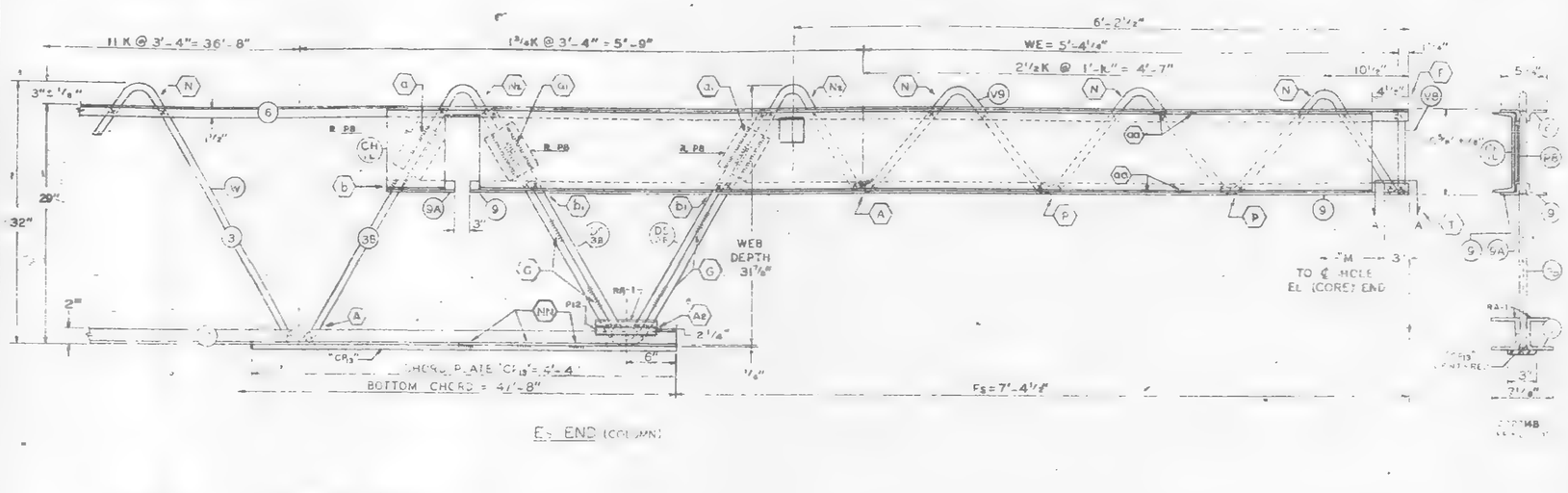
APPROVED FOR FABRICATION BY — DATE — CHECKED BY — DATE MAR 28 1969 — WE CHARGE OF PROJ. DEV.

DETAILED BY LACLEDE STEEL CO. — FABRICATION CONT. NO. WTC 221 — SURVEY NO. ST 214CL

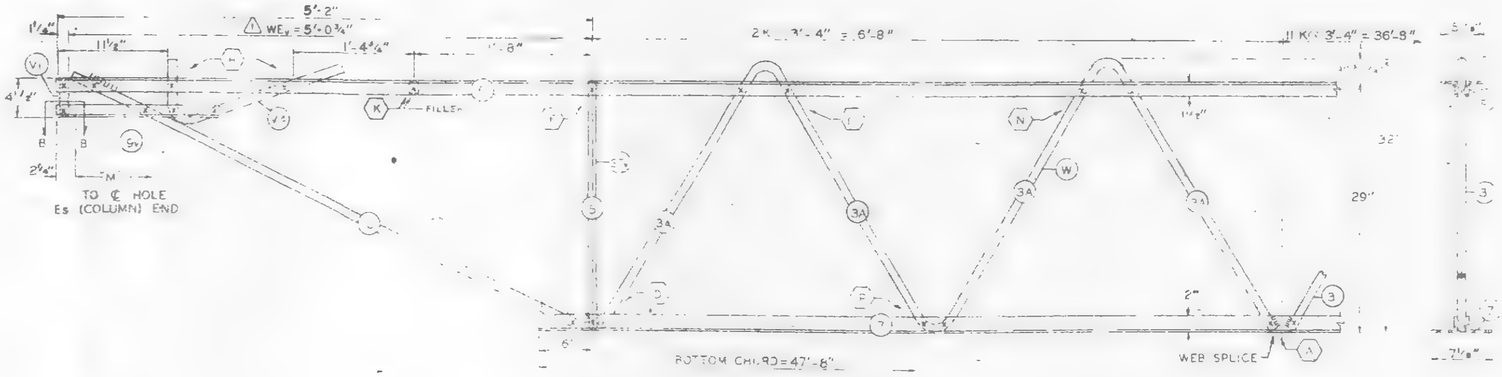
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



TRUSS ELEVATION



Es END (COLUMN)



EL END (CORE)

TRUSS DESIGNATION	MAIN MEMBER "W"									FILLER ℄ HOLES		CHORD PLATE			TRUSS DATA	CHANNEL PLATES				REINFORCING ANGLES			SPECIAL PLATES		
	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	MK.	DIA.	MK.	TYPE STEEL	SIZE LENGTH		MK.	TYPE STEEL	NOS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
32T14BL-5985	1	A242	2"x1½"x.25"	59'-8½"	2	A36	3"x2"x.37"	47'-8"	11	11	1.09	12	A36	59'-3½"		11	A36	3	4½"x.39"	5½"	13	A36	3"x2"x.37"	7'-½"	12	A36	1"x5"	7'-6"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	WEv	DIAGONAL "Td" STRUT MK.	DIAGONAL "Td" STRUT TYPE STEEL	DIAGONAL "Td" STRUT DIA.	DIAGONAL "Td" STRUT LENGTH	VERTICAL "Sv" STRUT MK.	VERTICAL "Sv" STRUT TYPE STEEL	VERTICAL "Sv" STRUT DIA.	VERTICAL "Sv" STRUT LENGTH	END STIFFENER MK. V1 TYPE STEEL	END STIFFENER MK. V1 DIA.	END STIFFENER MK. V1 LENGTH	END STIFFENER MK. V2 TYPE STEEL	END STIFFENER MK. V2 DIA.	END STIFFENER MK. V2 LENGTH	END STIFFENER MK. V4 TYPE STEEL	END STIFFENER MK. V4 DIA.	END STIFFENER MK. V4 LENGTH	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH
CORE END	C32T14BL-5985	9	A242	2"x1½"x.25"	1'-6"	5'-0¾"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅝"	A242	1.14	4'-1⅝"	—	—	—	A242	1.14	2'-2½"	—	—	—	—	—	—	—	—

CHANGE (SEE NOTE #2) MK.	CHANNEL SIZE	LENGTH
C4a	A36	10'-10"
C4b	A36	10'-6"

CHECK DIMENSION FOR TRUSS FIT

LOCATION	1	2	3	4
CL-1	9'-6½"	10'-4"	29'-2½"	49'-8½"

1	6-16-69	AS NOTED	G.D.C.
NO	DATE	REVISION	BY

REF. DRW.	7-AB1-13	10-4-68
	7-AB1-54	1-6-69
	7-A91-53	7-22-68
	7-AB3-2	1-3-68
	7-AB3-24	8-15-68
	7-AB4-17	10-4-68
	SA-124	1-6-69
	7-AB1-55	10-15-68
	7-AB4-17.2	12-20-68

FABRICATE AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: [illegible] DATE: 1/28/69

APPROVED FOR FABRICATOR BY: LACLEDE STEEL CO.

DETAILED BY A. CARL WEBER

DESIGN DRAWING NO. 7-AB1-13

DRAWN BY G.D.C. DATE APRIL 11, 1969

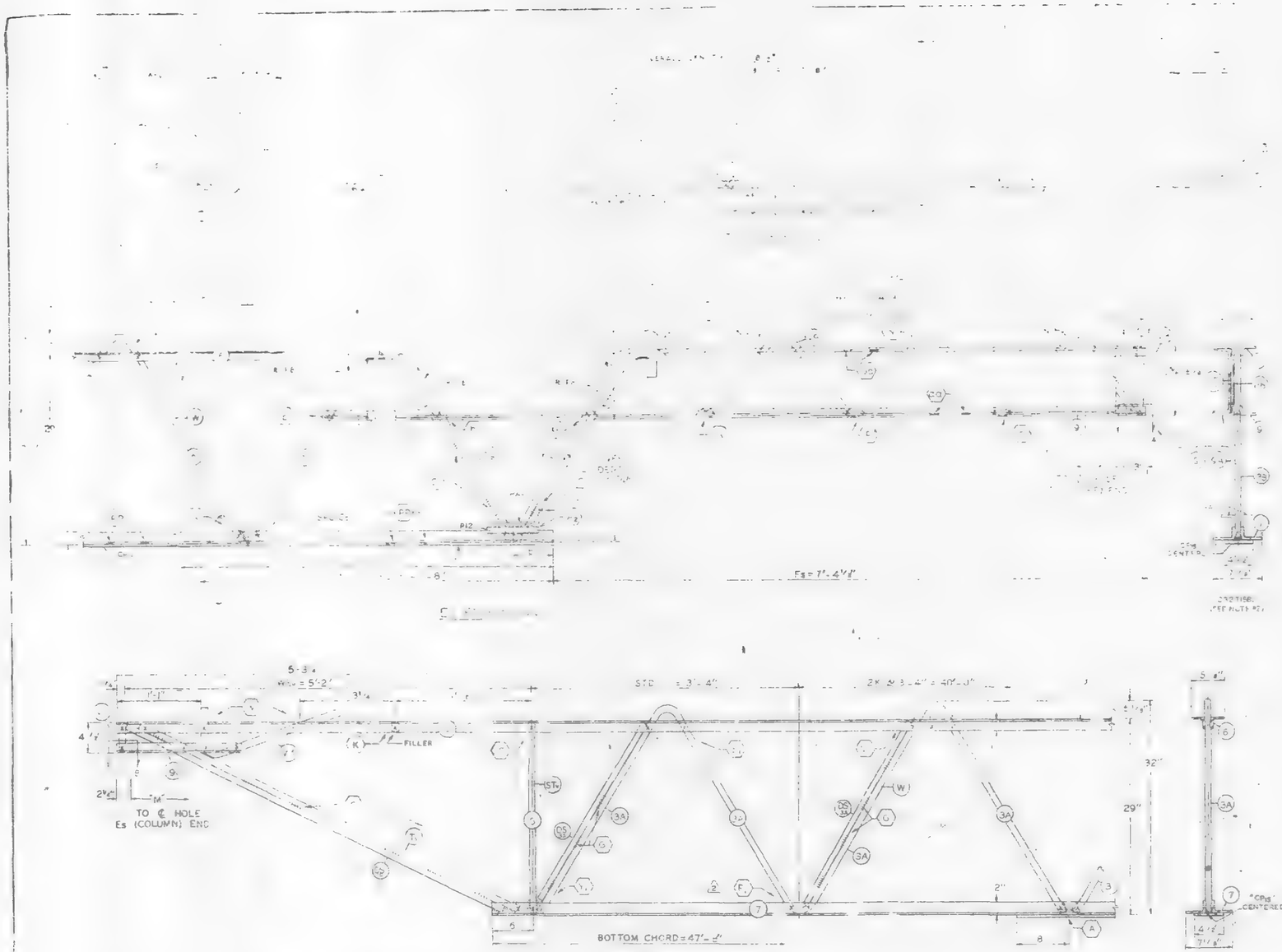
CHECKED BY T.M. CHURA DATE APRIL 11, 1969

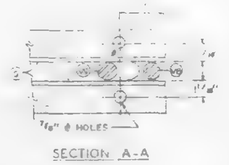
FABRICATION CONT. NO. W.P.E. 221

PLATE

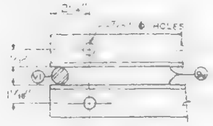
IN CHARGE OF DEV.

PROJECT NO. ST 2148 D





SECTION A-A



SECTION B-B

VOID

REVISION	BY

REF DRWG.	
7-AB1-14	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-5-68
7-AB4-7	10-4-68
SA-124	1-6-69
7-AB1-55	10-15-68
7-AB4-17.2	12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15EL x 598-8¼" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

DETAILED BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-14	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE	DRAWN BY gdc DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY YM CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
		FABRICATION CONT. NO. W T C 221	SHEET NO. ST 215-1

MARK	QTY	SIZE	LENGTH
C32T15BL-598.5	8	A242 2"x1"x¼"x.25"	5'-4½"
	8	A242 2"x1"x¼"x.25"	6'-8"

MARK	QTY	SIZE	LENGTH
C32T15EL-598.5	8	A242 2"x1"x¼"x.25"	5'-4½"
	8	A242 2"x1"x¼"x.25"	6'-8"

MARK	MAIN WEB "W" TYPE STEEL	DIA	LENGTH	NO. OF #
3	A242	1"	6'-8½"	16
4	A242	1"	6'-8½"	16

MARK	FILLER NO.	FILLER DIA.	"M" HOLES
-	2	-	59-3¼"

MARK	CHORD PLATE TYPE STEEL	SIZE	LENGTH	CONNECTION FILLER NO.	DIA.	LENGTH
CP	A36	4"x.31	41'-2"	4	1.14	3"

MARK	CHANNEL PLATES TYPE STEEL	PCS	SIZE	LENGTH
PB	A36	3	4½"x.36"	5

MARK	REINFORCING ANGLES TYPE	ANGLE SIZE	LENGTH	MARK	SPECIAL PLATES TYPE STEEL	SIZE	LENGTH
RNU	L36	3"x2"x.37"	7'-7½"	12	A36	6"	7'-6"

MARK	SEAM WELD SIZE	LENGTH	WF	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)
C32T15BL-598.5	¼	6'-8"		8	A242	1.14	5'-4½"
C32T15EL-598.5	¼	6'-8"		8	A242	1.14	5'-6¾"

MARK	CHORD PLATE TYPE STEEL	SIZE	LENGTH
	—	—	—
	—	—	—

MARK	END STIFFENER V8 TYPE STEEL	DIA.	LENGTH	MARK	END STIFFENER V9 TYPE STEEL	DIA.	LENGTH	MARK	END STIFFENER V10 TYPE STEEL	DIA.	LENGTH
	A242	1.14	10'-½"		A242	1.14	8'-3⅞"		—	—	—

MARK	CHANNEL (SEE NOTE #2) TYPE STEEL	CHANNEL SIZE	LENGTH
CH1	A36	10 C 30	10'-0"
CH2	A36	10 C 30	10'-0"

CHECK DIMENSION FOR TRUSS FABRICATION

LOCATION OF TRANS. TRUSS	CL-1	CL-2			
6-6	22-10	36'-2½"	4	E	2

EL END	TRUSS DESIGNATION	MK.	BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C-2T15EL-598.5	9x	A242	2"x1"x¼"x.25"	1'-6"	5'-2"	10	A242	1.14	5'-3¾"

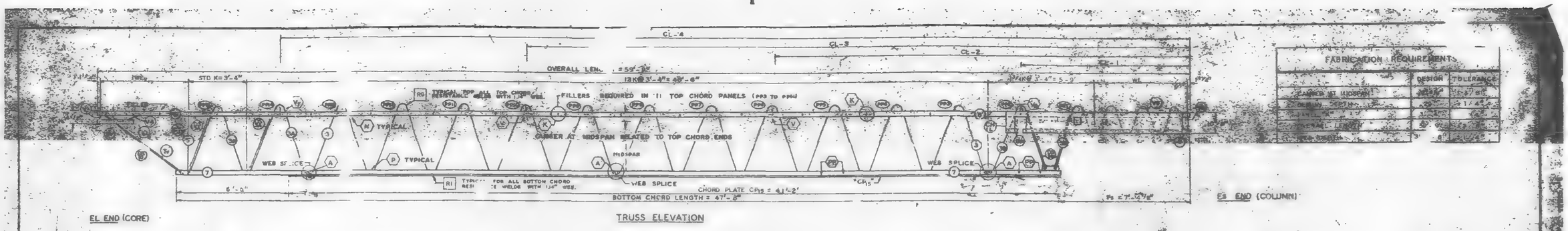
VERTICAL "St" STRUT MK.	TYPE STEEL	DIA.	LENGTH
5	A242	1.14	2'-4⅞"

END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH
A242	1.14	4'-1"	—	—	—	A242	1.14	2'-2½"

DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
DS 10	A242	.75	5'-3¾"

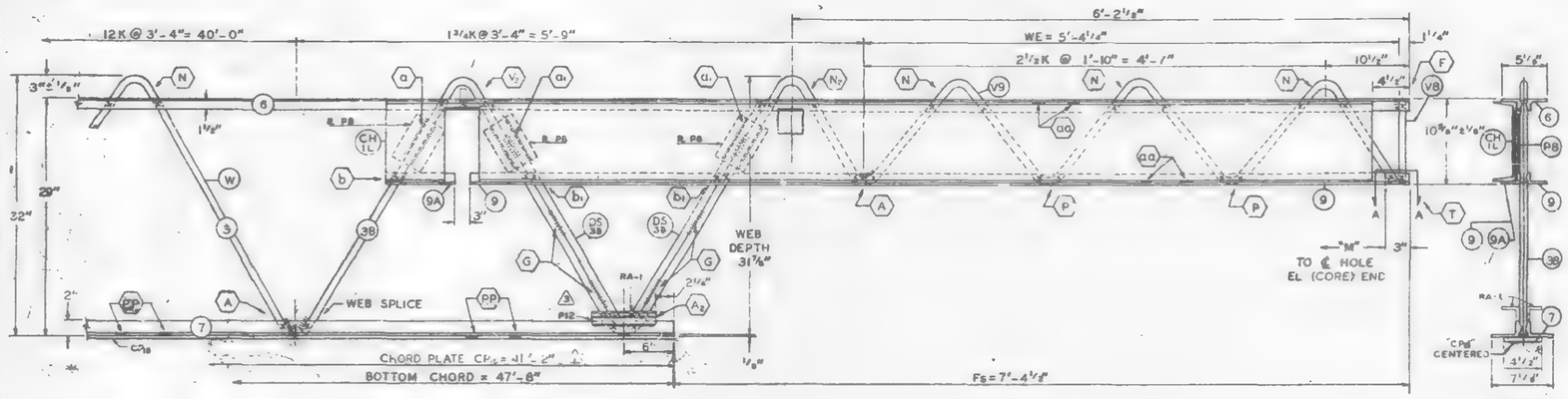
DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)
	A242	.75	2'-6¾"

DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
—	—	—	—

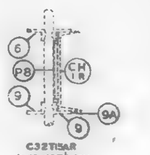


TRUSS ELEVATION

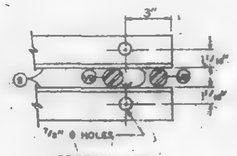
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 3/8"	± 1/8"
DEPTH	32"	± 1/4"
PANEL LENGTH	5'-4"	± 1/8"
OVERALL LENGTH	59'-9"	± 3/8"



ES END (COLUMN)



CH18 PLACED AS SHOWN FOR C32TI5AR.
CH18 PLACED AS SHOWN FOR C32TI5AL.

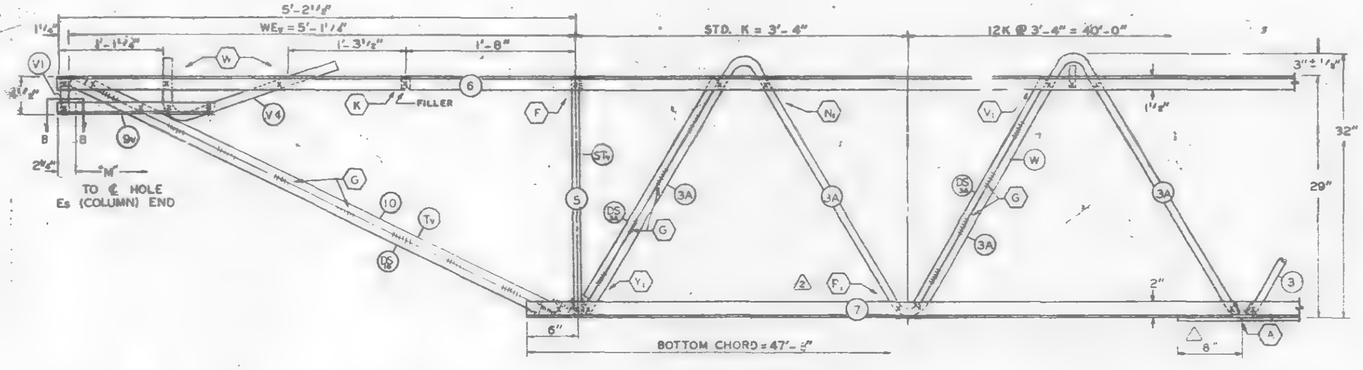


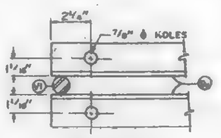
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (WELD).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (R1).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32TI5AL TRUSSES ARE APPLICABLE TO C32TI5AR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE BA PLACED ON OPP. HAND AS SHOWN.





SECTION B-B

NO.	DATE	REVISION	BY
3	12-10-68	AS NOTED	G.D.C
2	11-7-68	AS NOTED	G.D.C
1	10-31-68	CP-5	LWH

2 REF. DRWG.

7-ABI-18	10-4-68
7-ABI-34	11-22-68
7-ABI-53	2-12-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-2-68
SA-124	10-11-68
7-ABI-35	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

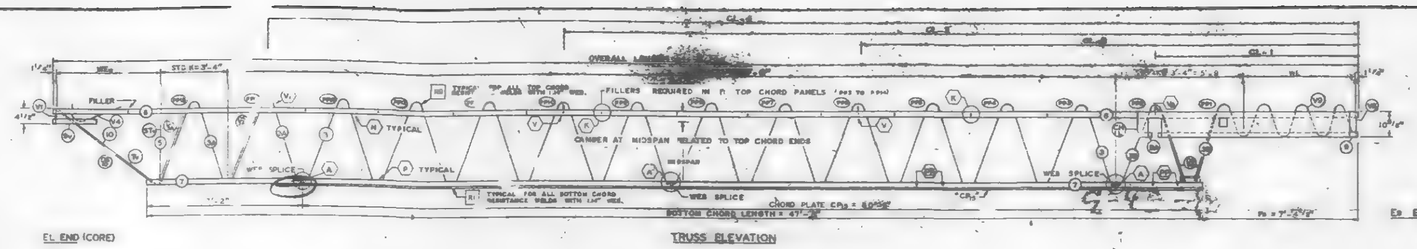
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE 1				CONNECTION FILLER			CHANNEL PLATES				REINFORCING ANGLES				SPECIAL PLATES			
3	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	REQ	TYPE STEEL	ANGLE SIZE	2 REQ'D EACH END MK.	2 REQ'D LENGTH	TYPE STEEL	SIZE	2 REQ'D LENGTH
C32TI5AL-599	6	A242	2"x1½"x.37"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3	A242	1.14	10'-5½"	12K @ 3'-4" = 5'-9"	12	1.14	59'-3¾"	CP18	A36	42x.36	41'-2"	4	1.14	3"	08	A36	3	4"x.36	5½"	09	A36	3"x2½"x.31	1	1'-2"	A36	1"x7"	7'-1"
									3A	A242	1.14	10'-5½"																							
									3B	A242	1.14	10'-5½"																							

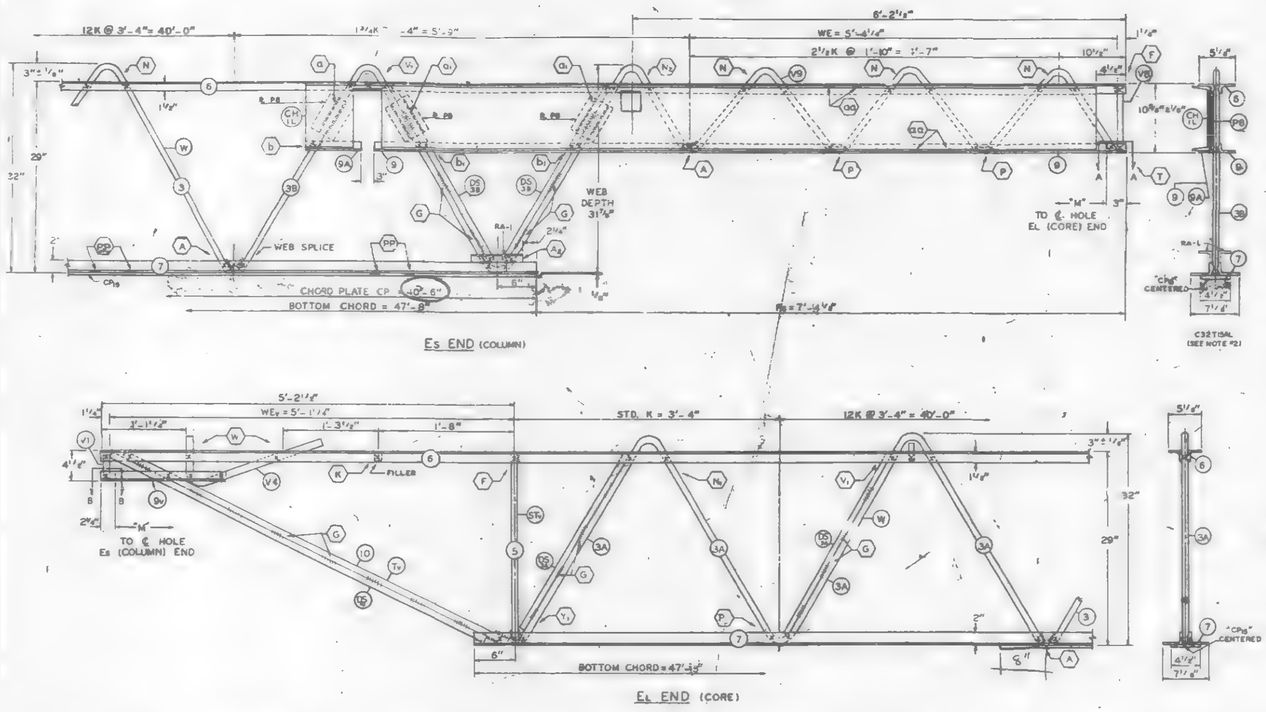
Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL (SEE NOTE #2)			
	3	MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32TI5AL-599	9	A242	2"x1½"x.25"	2	8'-5"	5'-4½"	D6	A242	1.14	2'-6¾"	—	—	—	—	A242	1.14	10'-5"	A242	1.14	8'-3⅞"	—	—	—	CH1L	A36	10"-30	10'-0"
		9A	A242	2"x1½"x.25"	2	8'-5"																			CH1R	A36	10"-30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.					
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4¼"	

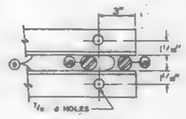
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1				END STIFFENER MK. V2				END STIFFENER MK. V4				DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
	2	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32TI5AL-599	9v	A242	2"x1½"x.25"	1'-7"	5'-1¼"	10	A242	1.14	5'-4⅞"	5	A242	1.14	2'-4⅞"	A242	1.14	3/8"	—	—	—	—	A242	1.14	2'-2"	DS 10	A242	.75	5'-4⅞"	DS 3A	A242	.75	2'-6¾"	—	—	—	—	—	—

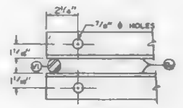
PROJECT DETAILS	
FLOOR TRUSS DETAILS	
FOR	
WORLD TRADE CENTER — N.Y.C.	
FOR	
THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32TI5AL x 59'-9" LONG (SEE NOTE #2)	
WORLD TRADE CENTER TOWERS A & B	
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-16
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 12/16/68	DRAWN BY: gdc DATE OCT. 1, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE	CHECKED BY: T.M.CHURA DATE OCT. 1, 1968
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER	FABRICATION CONT. NO W.T.C. 221
	PLATE
	IN CHARGE OF PROD. DEV.
	SHEET NO. ST 215AL





CH15 PLACED AS SHOWN FOR C32T15AR.
CH15 PLACED AS SHOWN FOR C32T15AL.





ALL PANEL POINTS RESISTANCE WELDED. (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (ARC).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (9T).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T15AL TRUSSES ARE APPLICABLE TO C32T15AR TRUSSES WITH CHANNEL CH15 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8	± 1/4"

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-19	8-5-68
7-AB1-54	8-5-68
7-AB1-53 & 55	7-22-68
7-AB3-2	-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE			CONNECTION FILLER			CHANNEL PLATES				ANGLES			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH
24T15AL-599	6	A242	2"x1 1/2"x.37"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3	A242	1.14	58'-3 7/8"	12	1.14	58'-3 7/8"	CP18	A36	50"	5/8"	50'-8"	4	1.14	3"	PB	A36	3	5"x3/8"	5'-7 1/8"	RA-L	A36	2	3"x2"x.37"	7'-1"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8				END STIFFENER MK. V9				END STIFFENER MK. V10				CHANNEL (SEE NOTE #2)			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	24T15AL-599	9	A242	2"x1 1/2"x.25"	1	9'-0"	5'-8 3/4"	05	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10'1 1/8"	A242	1.14	8'-3 7/8"	—	—	—	—	CH15	A36	10C 15.3	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	9'-0"																					CH16	A36	10C 15.3	10'-0"

El END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V6				END STIFFENER MK. V7				END STIFFENER MK. V4				DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
CORE END	24T15AL-599	9A	A242	2"x1 1/2"x.25"	1'-7"		5'-8 3/4"	10	A242	1.14	5'-4 7/8"	5	A242	1.14	2'-8 3/4"	A242	1.14	4'3/8"	—	—	—	—	A242	1.14	2'-2 1/4"	05	A242	.75	5'-4 7/8"	05	A242	.75	2'-6 3/8"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-8 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 3/4"	

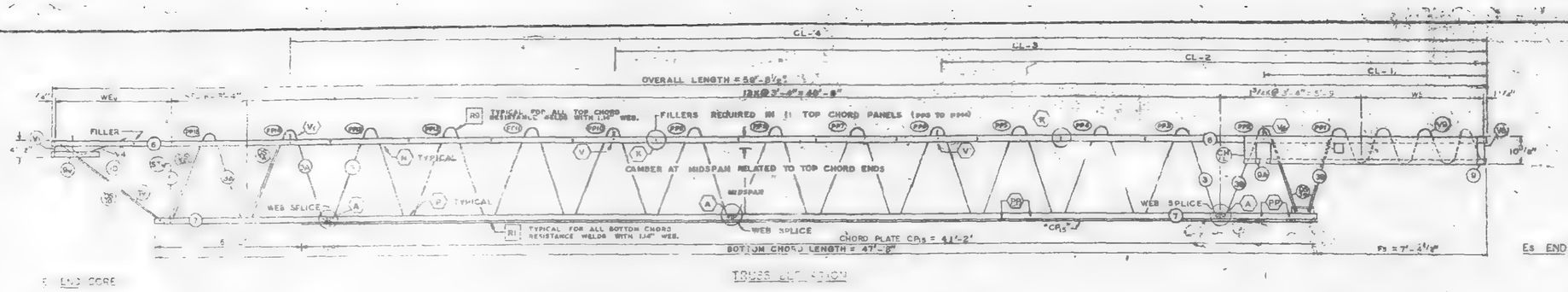
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15AL x 59'-9" LONG (SEE NOTE #2)

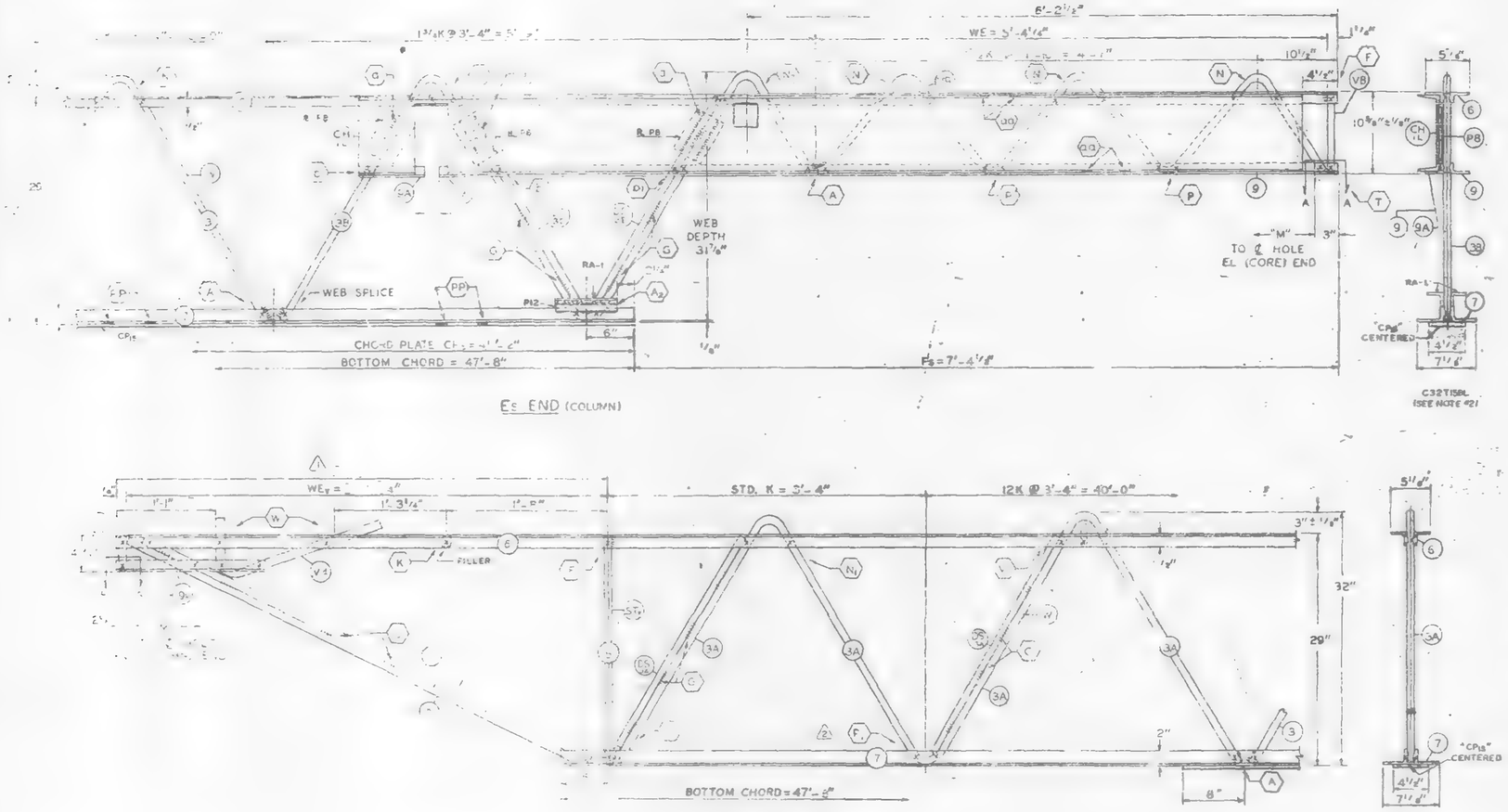
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-18
PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
DRAWN BY GDC DATE OCT. 1, 1968
CHECKED BY: T.M.CHURA DATE OCT. 1, 1968
IN CHARGE OF PROJ. DEV.
DETAILED BY: A CARL WEBER
FABRICATION CONT NO W.T.C 221
SHEET NO ST 215AL



FABRICATION REQUIREMENTS 1		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"/16"	± 3/4"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB [illegible]	[illegible]	[illegible]



ALL PANEL [illegible]
ARC WELD [illegible]
AND AT BOTTOM [illegible]
LETTERS IN [illegible]
LETTERS AND [illegible]
RESISTANCE WE[illegible]
QUALITY CONTROL [illegible]
ALL WELD DETA[illegible] ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 402.
CHORD PLATE DETAILS SHOWN ON SHEET ST 263.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE 2

ALL DETAILS & ELEVATIONS [illegible] SHOWN.
[illegible] AND CHANNEL [illegible] 4 IN CHANNEL [illegible] PLACED ON GRP. [illegible]

NO.	DATE	REVISION	BY
	6-5-69	AS NOTED	G.D.C.

REF DRWG [illegible]

[illegible]	—	1-4-68
[illegible]	—	1-6-69
[illegible]	—	7-2-68
[illegible]	—	1-3-68
[illegible]	—	3-15-68
[illegible]	—	3-4-69
[illegible]	—	1-6-69
[illegible]	—	10-15-68
7-A84-17.2	—	12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS [illegible]
WORLD TRADE CENTER [illegible]
THE PORT OF NEW [illegible] AUTHORITY
FLOOR TRUSS C32T15SEL [illegible] (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

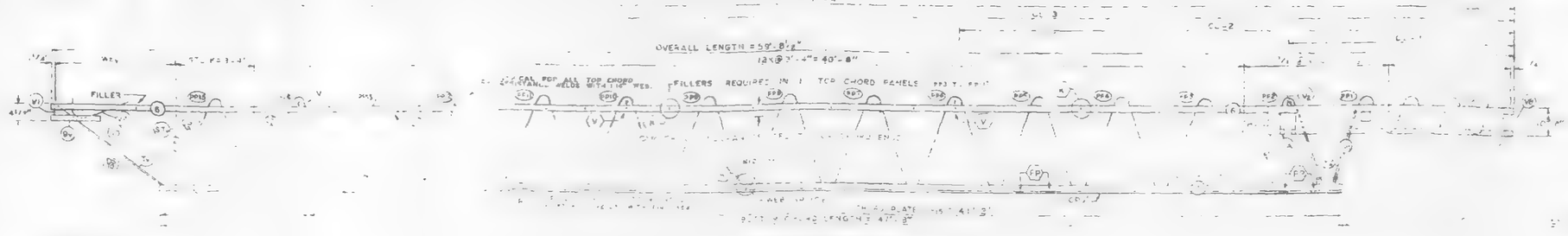
CHECK DIMENSION FOR TRUSS FAB				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	S
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	[illegible]

BEARING					WE	DOUBLE STRUT			CHORD PLATE			END STIFFENER									CHANNEL (SEE NOTE #2)		
	MK.	TYPE STEEL	SIZE	PCS.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
END																									
C32T15BL-59B5	9	A242	2"x1½"x.25"	1	1'-6"	10	A242	1.14	2'-6¾"	—	—	—	—	A242	1.14	10'-1⅛"	A242	1.14	8'-3⅞"	—	—	—	8	A36	10" [illegible]	10'-2"
	9A	A242	2"x1½"x.25"	1	1'-6"																				

CORE END	TRUSS DESIGNATION	BEARING ANGLES				WE₀	DIAGONAL "T₀" STRUT			VERTICAL "S1" STRUT			END STIFFENER								DOUBLE STRUT			DOUBLE STRUT			DOUBLE STRUT		
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH
END																														
	C32T15BL-59B5	9	A242	2"x1½"x.25"	1'-6"		10	A242	1.14	2'-6¾"	5	A242	1.14	2'-4⅞"	A242	1.14	4'-8⅛"	—	—	—	—	—	—	DS	A242	.75	5'-4⅞"	—	—	—	—

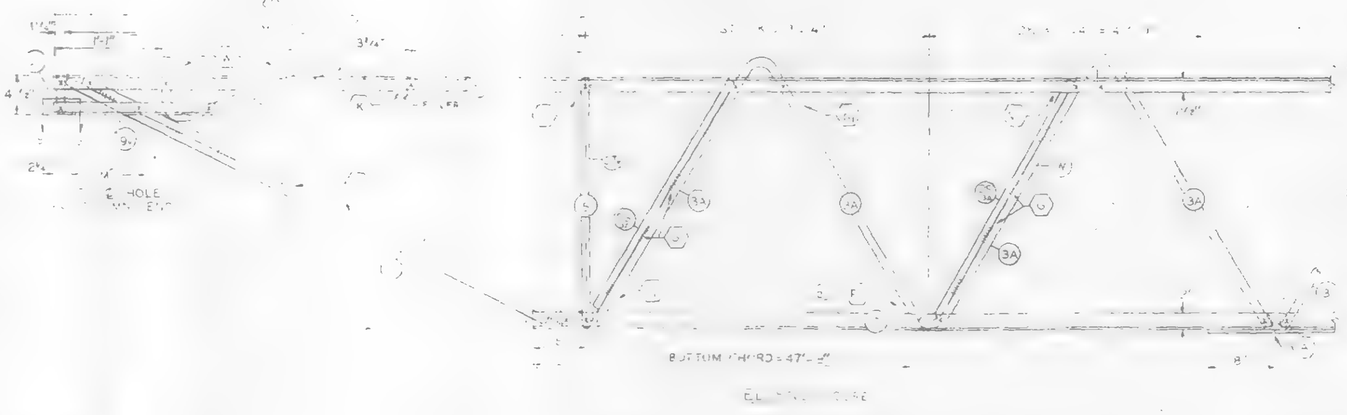
DESIGNED FOR			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. T-AB1-14	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 8/11/69	DRAWN BY gdc DATE APRIL 11, 1963	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.N. CHURA DATE APRIL 11, 1963	IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER		FABRICATION CONT. NO WTC 221-	SHEET NO. ST 215 BL

DESIGNED BY [illegible]
DETAILED BY [illegible]
CHECKED BY [illegible]
APPROVED BY [illegible]



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2'/16"	± 3/8"
DESIGN DEPTH	29'	± 1 4"
PANEL "R"	3'-4"	± 1/16"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	3' 7/8	± 1/4"

SECTION A-A



SECTION B-B

NOTED			
	DATE	REVISION	BY

REF DRWG.

7-AB1-16	10-4-68
7-AB1-54	1-6-69
7-AB3-53	7-22-66
7-AB3-2	3-68
7-AB3-24	8-15-68
7-AB4-7	10-4-68
7-AB1-24	1-6-69
7-AB1-55	10-15-68
7-AB4-17.2	12-20-68

TRUSS DESIGNATION	MAIN WEB				FILLER		CHORD PLATE				CONNECTION FILLER			CHANNEL FILLERS			REINFORCING ANGLES			SPECIAL PLATES		
	MK	LENGTH	NO. OF PCS		NO.	DIA.	MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	MK	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK	TYPE STEEL	SIZE (2 REQ'D) LENGTH
IC32T15BL 5/85	A24	1¼	2		12	1	CP10	A36	44x.38	41'-2"	4	1¼	7"		A36	4x.38		A36	3½x2½x.37	7'-1½"		A36	9/16
	A24	1¼	2																			
	A23	1¼	2																			

TRUSS DESIGNATION	END STIFFENER MK V3				MK V2				MK V4				CHANNEL (SEE NOTE #2) MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH					
IC32T15BL 5/85	A242	1¼	10'-½"		A242	1¼	8'-3'/8"		—	—	—		CH1	A36	10 C 30	10'-0"
													CH2	A36	10 C 30	10'-0"

TRUSS DESIGNATION	END STIFFENER MK V3				MK V2				MK V4				DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH					
IC32T15BL 5985	A242	1¼	4'-8"		—	—	—		A242	1¼	2'-2½"		DS1	A242	7/8	5'-[illegible]

TRUSS DESIGNATION	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)
IC32T15BL 5985	DS2	A242	7/8	2'-[illegible]"

TRUSS DESIGNATION	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
IC32T15BL 5985	—	—	—	—

COLUMN END

CORE END

CLOSED TRUSS DETAILS

WORLD TRADE CENTER TOWERS A & B

TRUSS DESIGNATION IC32T15BL 8½" (SEE NOTE #2)

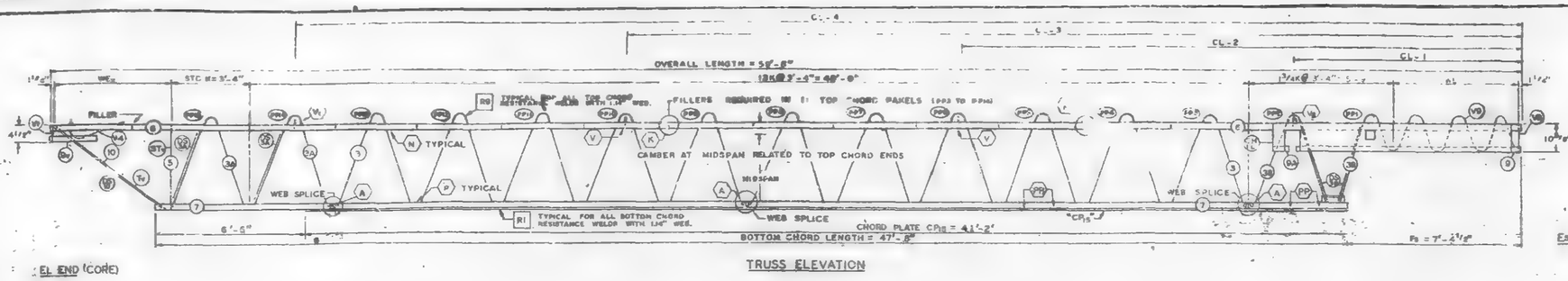
DESIGNED	6/4/69	DRAWN	APRIL 11, 1969
CHECKED		DATE	APRIL 11, 1969

PLATE

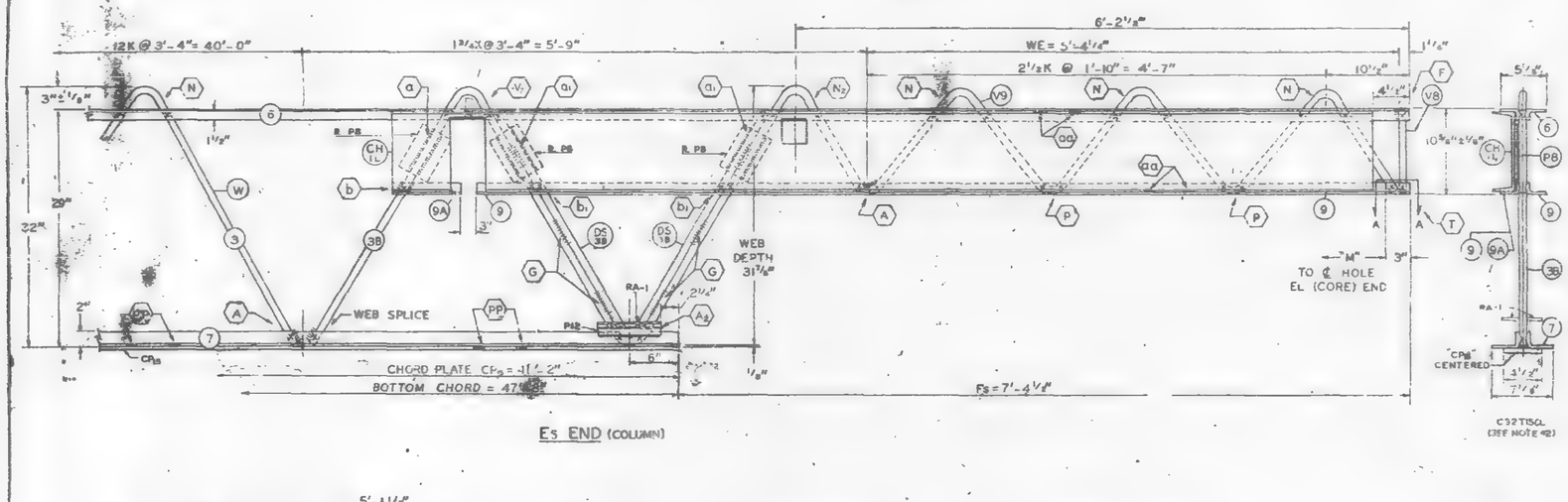
IN CHARGE OF PROD. DEV.

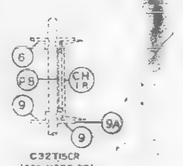
SHEET NO. ST 215BL

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	50'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



TRUSS ELEVATION



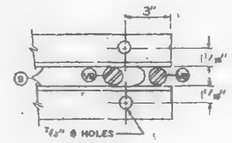


CH1R PLACED AS SHOWN FOR C32T15CR.
CH1L PLACED AS SHOWN FOR C32T15CL.

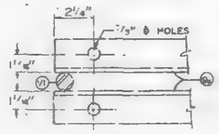
ALL PANEL POINTS RESISTANCE WELDED (X). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (unless otherwise noted). LETTERS IN HEXAGON INDICATE WELD DETAIL (i.e., (A)). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (i.e., [R1]). ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293. ALL CHANNEL DETAILS SHOWN ON SHEET ST1407. CHORD PLATE DETAILS SHOWN ON SHEET ST283. SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE 2

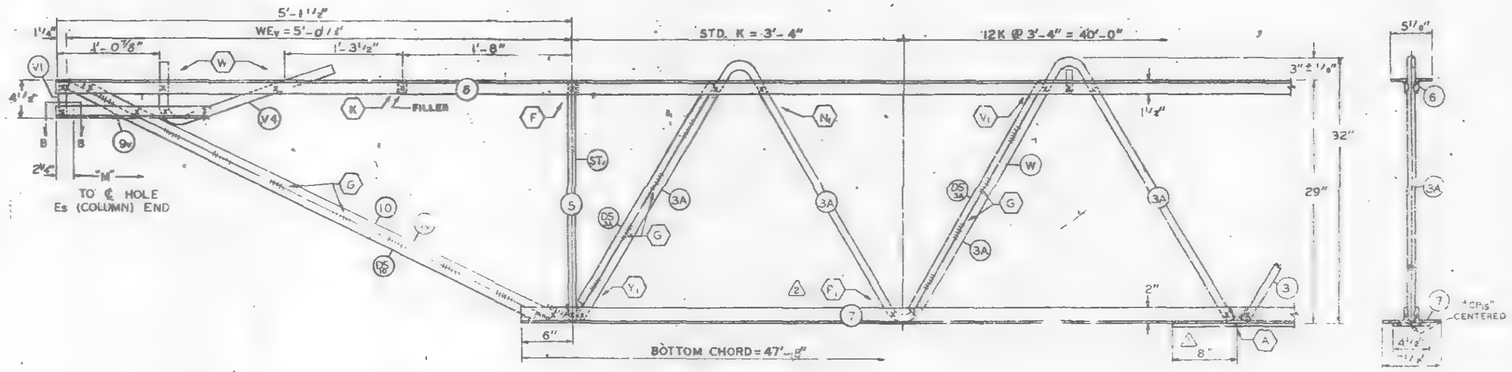
ALL DETAILS & ELEVATIONS SHOWN FOR C32T15CL TRUSSES ARE APPLICABLE TO C32T15CR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



SECTION B-B



NO.	DATE	REVISION	BY

REF DRWG.

7-ABI-16	10-4-68
7-ABI-54	10-25-68
7-ABI-53	7-22-68
7-AB3-2	L 3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-31-68
SA-124	10-11-68
7-ABI-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLE	CHORD PLATE				CONNECTION FILLER			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO OF K	NO.	DIA.		MK.	TYPE STEEL	S.I.E	LENGTH	NO	DIA	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T15C	98	A242	2"x1½"x.37"	59'-8"	7	A36	3"x2"x.37"	47'-8"	1	A242	1¼"	68'-1¼"	12K @ 3'-4" = 40'-0"	12	1¼"	59'-2⅝"	CP	A36	42"x.37"	41'-2"	4	¾"	2"	P8	A36	3	6"x.37"	5'-½"							
									2	A242	1¼"	68'-1¼"	12K @ 3'-4" = 40'-0"																					
									3	A242	1¼"	16'-7⅛"	4K @ 3'-4" = 13'-4"																					

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER								CHANNEL (SEE NOTE #2)			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T15CL-598	9	A242	2"x1½"x.25"	1	1'-6"	5'-0⅛"	DS	A242	1.14	2'-6¾"	-	——	——	——	A242	1.14	10½"	A242	1.14	8'-3⅛"	——	——	——	P8	A36	MC 10	10'-0"
		9A	A242	3"x2½"x.25"	1	8'-5"																					10'-0"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE$_V$	DIAGONAL T$_V$ STRUT				VERTICAL St$_V$ STRUT				END STIFFENER								DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT		
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH
EL END COR. END	C32T15CL-598	9v	A242	2"x1¼"x.25"	1'-6"	5'-0⅛"	10	A242	1.14	5'-4⅛"	5	A242	1.14	2'-6⅞"	A242	1.14	4'-5"	——	——	——	A242	1.14	2'-2½"	DS	A242	.75	5'-4⅛"	A2	A242	.75	2'-6⅝"	—	——	——	——

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRUSS	CL-1	CL-2	CL-3	CL-4	Fs
	9'-6½"	10'-1"	35'-2⅝"	49'-1½"	

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY [illegible] FOR P.A.N.Y.& N.J. DATE 4/1969

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE

DESIGN DRAWING NO. 7-ABI-16

DRAWN BY [illegible] DATE MAY 28, 1969

CHECKED BY T.M.CHIRA DATE MAY 28, 1969

IN CHARGE OF PROD. DEV.

FABRICATION CONT. NO. W.T.C. 221

PLATE

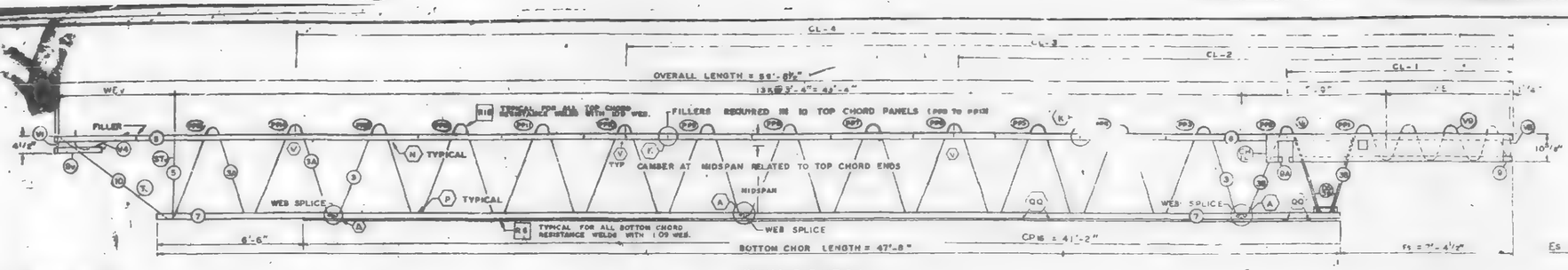
SHEET NO. ST 215CL

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

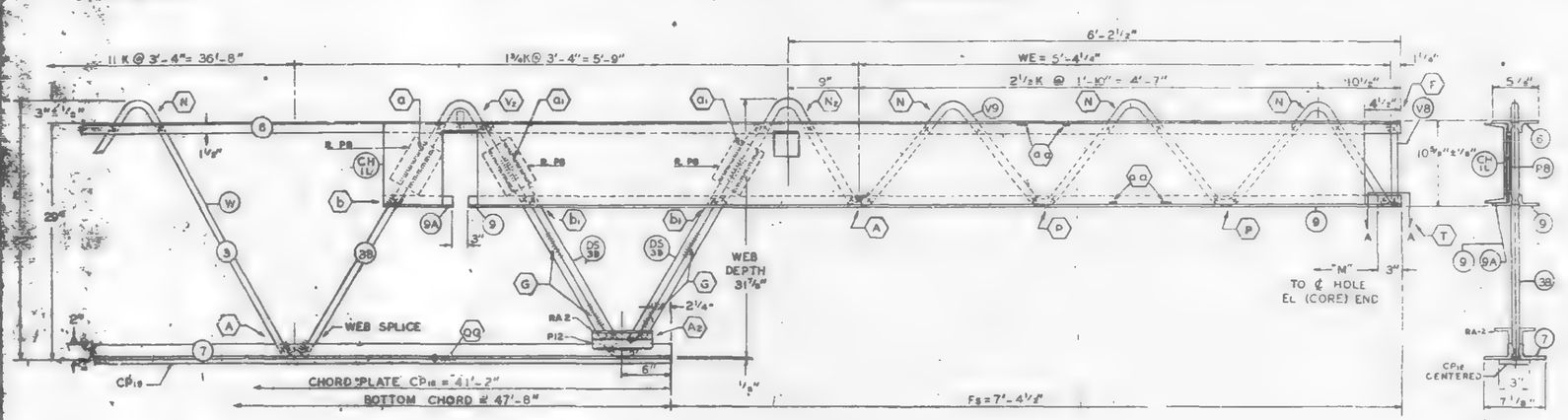
FLOOR TRUSS C32T15CL x 59'-8" LONG (SEE NOTE #1)

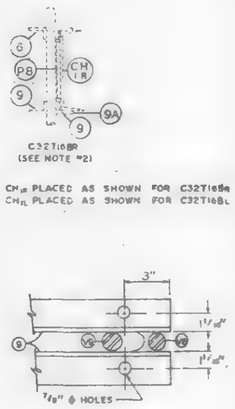
WORLD TRADE CENTER TOWERS A & B

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL E	5'-4"	± 1/16"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/16"

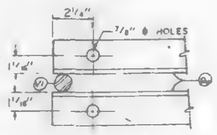


TRUSS ELEVATION





SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (WELD).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [DS].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16BL TRUSSES ARE APPLICABLE TO C32T16BR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-15	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB6-17	10-4-68
9A-124	1-6-69
7-AB1-55	10-15-68
7-AB6-172	12-20-68

SKILLING · HELLE CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 4/25/69 By SK

FAINT
LACLEDE ELECTROCOAT
RED NO. 10001

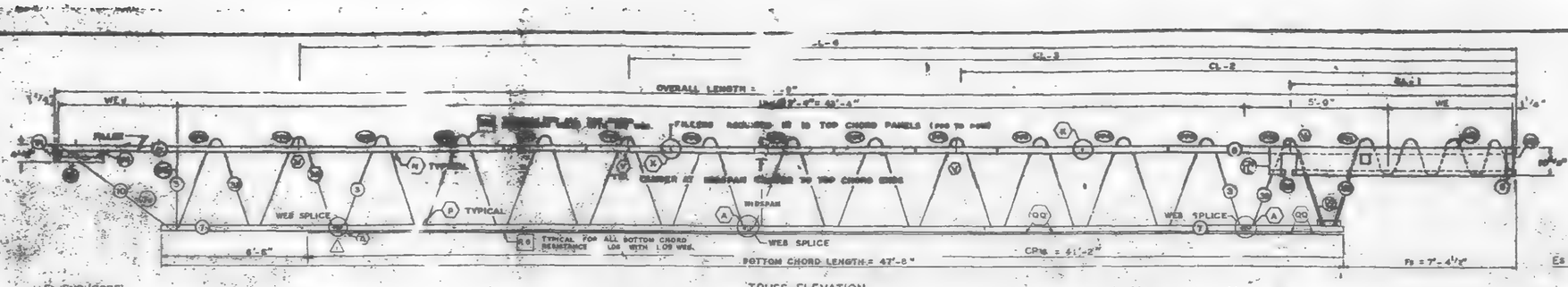
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES				REINFORCING ANGLES			SPECIAL PLATES		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.	MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	2 REQ'D LENGTH	MK	TYPE STEEL	SIZE	2 REQ'D LENGTH
C32T16BL-598.5	6	A242	2"x1½"x.31	59'-8½"	7	A36	3" x 2" x .33"	47'-8"	3	A36	109	68'-8"	11 @ 3'-4" = 36'-8"	11	109	CP 16	A36	3"x.25	41'-2"	4	109	3"	P8	A36	3	4"x.39	5'-2"	9A	A36	2"x2"x.33"	7'½"	P12	A36	1"x8"	7'½"
									3B	A242	114	68'-8"	13 @ 5'-4" = 5'-9"																				

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER										CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	12T16B-598.5	9	A242	2"x1½"x.25	2	5'-5"	5'-4⅛"	10	A242	114	2'-6¾"	—	—	—	—	A242	114	10'½"	A242	114	8'-3⅞"	—	—	—	C1	A36	10" 30	10'-0"
																									C2	A36	10" 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	
9'-6½"	23'-10½"	36'-2½"	49' 6½"	1'-4½"

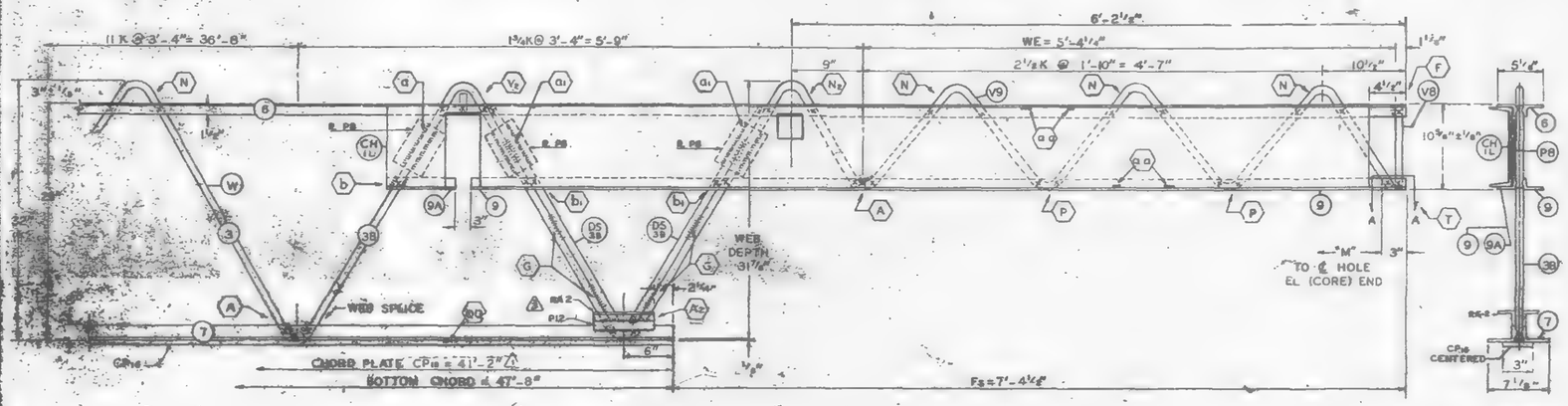
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEy	DIAGONAL "Ty" STRUT				VERTICAL "St" STRUT				END STIFFENER										DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V6 TYPE STEEL	MK. V6 DIA.	MK. V6 LENGTH	MK. V7 TYPE STEEL	MK. V7 DIA.	MK. V7 LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T16BL-598.5	9A	A242	2"x1½"x.25	1'-0"	8'-3"	10	A242	114	3'-0⅛"	5	A242	114	2'-6⅞"	A242	114	4'-3⅛"	—	—	—	A242	114	2'-2'2"	-	—	—	—	-	—	—	—

FLOOR TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T16BL (SEE NOTE 2) x 59'-8½" LONG	
WORLD TRADE CENTER TOWERS A & B	
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-3
APPROVED FOR FABRICATION BY — FOR PONYA	DATE — DRAWN BY G.C.S. DATE APRIL 11, 1969
APPROVED FOR FABRICATION BY — FOR FABRICATOR	DATE — CHECKED BY T.M.CHIRA DATE APRIL 11, 1969
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT. NO. W.T.C. 221
PLATE — IN CHARGE OF PROD. DEV.	SHEET NO. ST 2681



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	6" V/8"	± 3/8"
DESIGN DEPTH	120"	± 1/16"
PANEL L	5'-0"	± 1/8"
OVERALL LENGTH	48'-0"	+0 -3/16"
WEB DEPTH	31 7/8"	± 1/16"

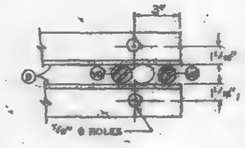


CH_R PLACED AS SHOWN FOR C32T16AR
CH_L PLACED AS SHOWN FOR C32T16AL

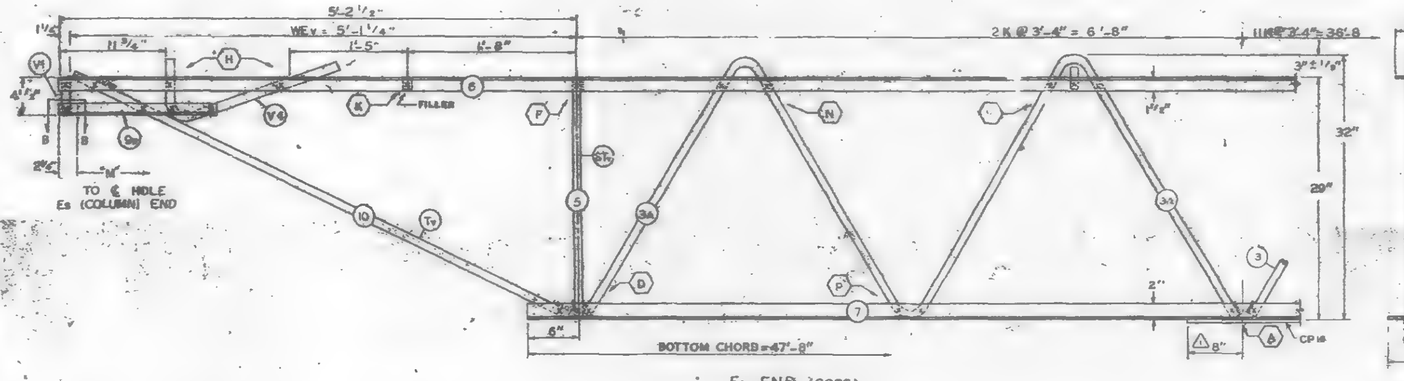
ALL PANEL POINTS RESISTANCE WELDED (℄).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES UNNO.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ... (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ... (R2)
(A) ALL WELD DETAILS SHOWN ON SHEETS ST 290, ST 291, ST 292 & ST 293.
A'L CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

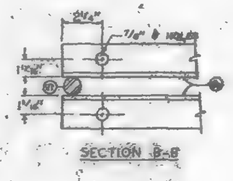
ALL DETAILS & ELEVATIONS SHOWN FOR C32T8AL TRUSSES ARE APPLICABLE TO C32T8AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

(A)	12-10-68	AS NOTED	MJC
(2)	11-7-68	AS NOTED	MJC
(1)	10-31-68	CP16	TWM
NO.	DATE	REVISION	BY

(A) REF. DRWG.

PAINT
LACLEDE ELECTROCOAT.
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES	CHORD PLATE (A)				CONNECTION FILLERS				CHANNEL PLATES				REINFORCING ANGLES				SPECIAL PLATES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF ℄	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	℄ RECD'D LENGTH	MK.	TYPE STEEL	SIZE	℄ RECD'D LENGTH
C32T16AL-599	6	A242	2"x1 1/2"x.31	39'-9"	7	A36	3"x2"x.33"	47'-8"	W1	A36	1.09	10'-3 3/4"	11	1.09	59'-3 3/8"	CP16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4"x.39	5'1/2"	9A1	A36	3"x2"x.33"	7'1/2"	PL1	A36	1"x3/8"	7'1/2"
									W2	A36	1.09	10'-3 3/4"	11																						
									W3	A36	1.09	9'-4 3/4"	10																						

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER										CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T16AL-599	9	A242	2"x1 1/2"x.25	2	1'-9"	5'-4 1/8"	DS	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10'1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH1L	A36	10 : 30	10'-0"
		9A	A242	2"x 1"x.25		6 1/2"																			CH1R	A36	10C 30	10'-2"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/8"

Es CORE END	TRUSS DESIGNATION	BEARING ANGLES					WE_V	DIAGONAL "T_V" STRUT				VERTICAL "ST_V" STRUT			END STIFFENER										DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE		LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V7 TYPE STEEL	MK. V7 DIA.	MK. V7 LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T16AL-599	B1	A242	2"x1 1/2"x .25	2	1'-7"	5'-1 1/16"	10	A242	1.14	5'-8 1/2"	5	A242	1.14	2'-6 7/8" (A)	A242	1.14	4 3/8"	—	—	—	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T16AL (SEE NOTE 2) x 59'-9" LONG

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION DATE 12/16/68
BY: FOR P.O.N.Y.A.

APPROVED FOR FABRICATION DATE
BY: FOR FABRICATOR

LACLEDE STEEL CO.

DESIGN DRAWING NO. 2-AB1-16

DRAWN BY: GAC
DATE OCT. 8, 1968

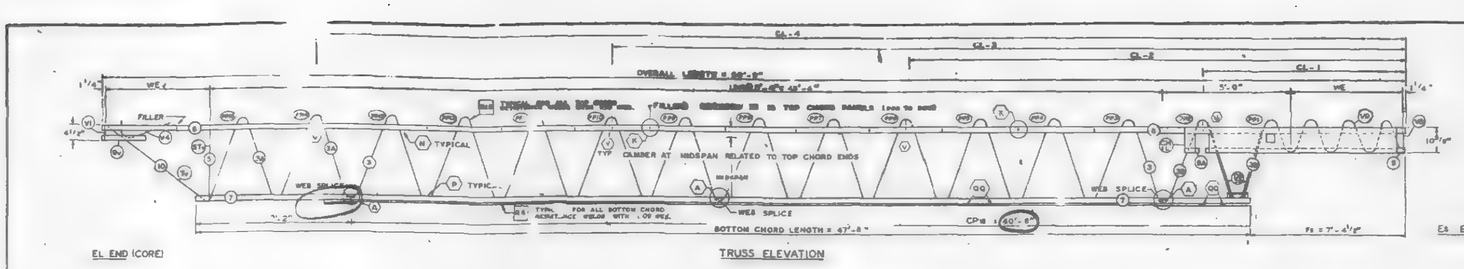
CHECKED BY: T.M.CHUNG
DATE OCT 8, 1968

FABRICATION CONTR. NO. W.T.C. 221

PLATE

NO CHANGE OF FOLD. DES.

SHEET NO. ST 286

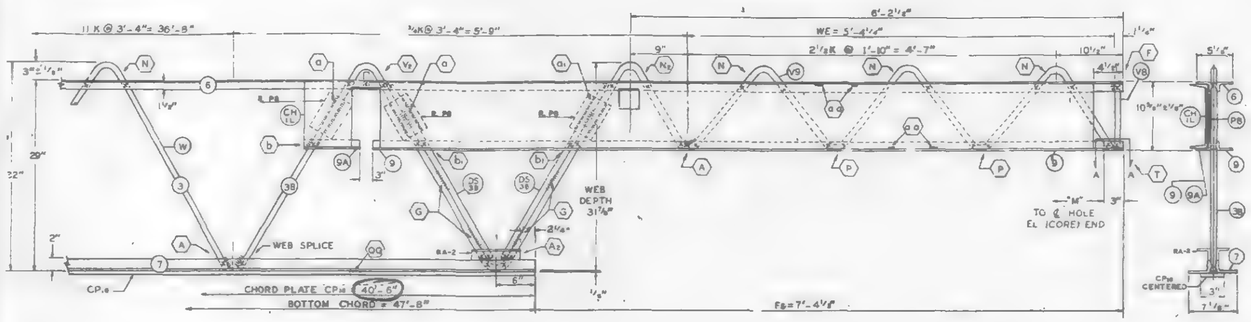


EL END (CORE)

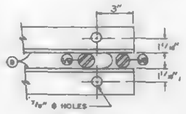
TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	± 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-0"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



CH@ PLACED AS SHOWN FOR C32T16AR
CH@ PLACED AS SHOWN FOR C32T16AL



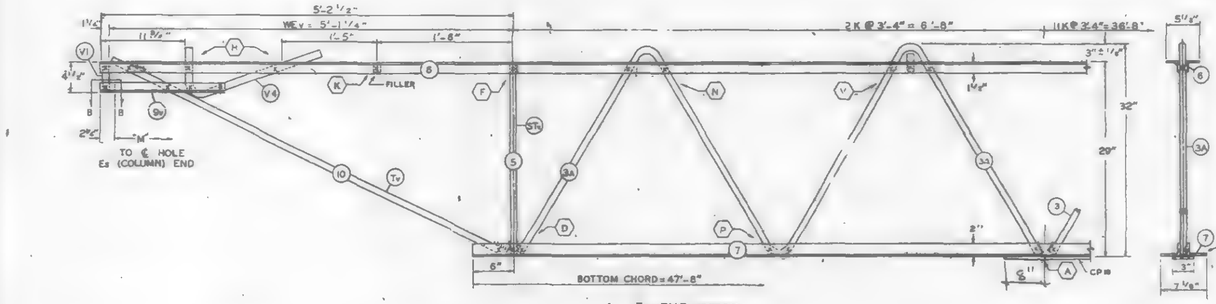
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (ARC).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [9A]
ALL WELD DETAILS SHOWN ON SHEETS ST-29A, ST-29B.

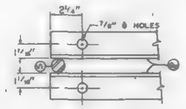
ALL CHANNEL DETAILS SHOWN ON SHEET ST-30C.
CHORD PLATE DETAILS SHOWN ON SHEET ST-28B.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16AL TRUSSES ARE APPLICABLE TO C32T16AR TRUSSES WITH CHANNEL CH@ AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-15	8-15-88
7-ABI-54	8-15-88
7-ABI-53 & 56	7-26-88
7-AB2-2	1-3-68
7-AB3-24	8-15-88
7-AB4 17 & 17.2	8-15-88
SA-124	8-1-68

SPECIAL NOTE: ORDER ... ON SHEET ... FROM ... SK.

LACLEDE ELECTROCOAT
RED NO. 10001

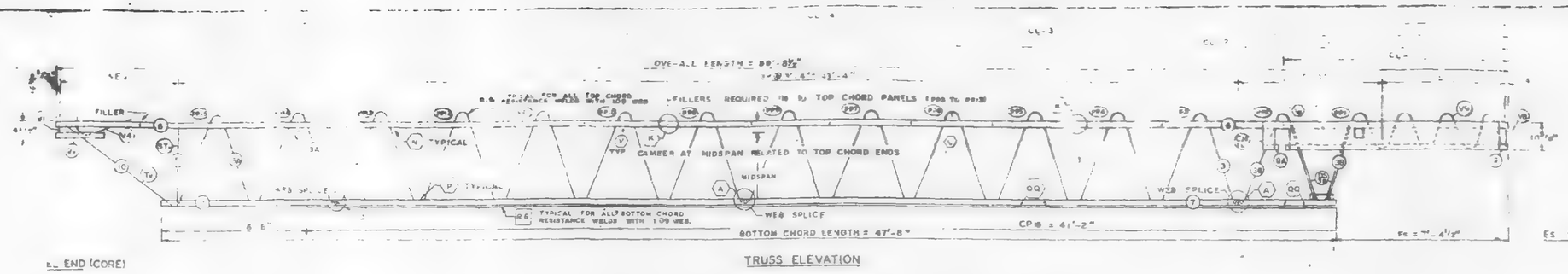
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES				REINFORCING ANGLES (R. REQ'D)				TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	WIDE	LENGTH		
C32T16AL-599	6	A242	2"x1½"x.31	59'-9"	7	A36	3" x 2" x .33"	47'-8"	1	A36	H20	8'-8 1/2"	11 K @ 3'-4" = 36'-8"	11	1.09"	59'-3 3/4"	CP 18	A36	3"x.25"	40'-6"	4	1.09	3"	PB	A36	3	6"x.38"	5'-1/2"	8A-6	A36	3"x 2"x.33"	7 1/8"		
									2	A242	L14	10'-3 1/2"	2 K @ 3'-4" = 6'-8"																				
									3A	A242	L14	10'-2 1/2"	3 K @ 3'-4" = 10'-0"																				

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER								CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T16AL-599	9A	A242	3"x 2"x.25"	2	1'-5"	5'-4 1/16"	5	A242	L14	2'-6 3/16"	—	—	—	—	A242	L14	10'-3"	A242	L14	8'-3 7/16"	—	—	—	—	CH@ A36	10 [30	18'-0"
		9A	A242	3"x 2"x.25"	2	1'-5"																				CH@ A36	10 [30	30'-0"

CHECK DIMENSION FOR TRUSS FAB.					
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
0'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/8"	

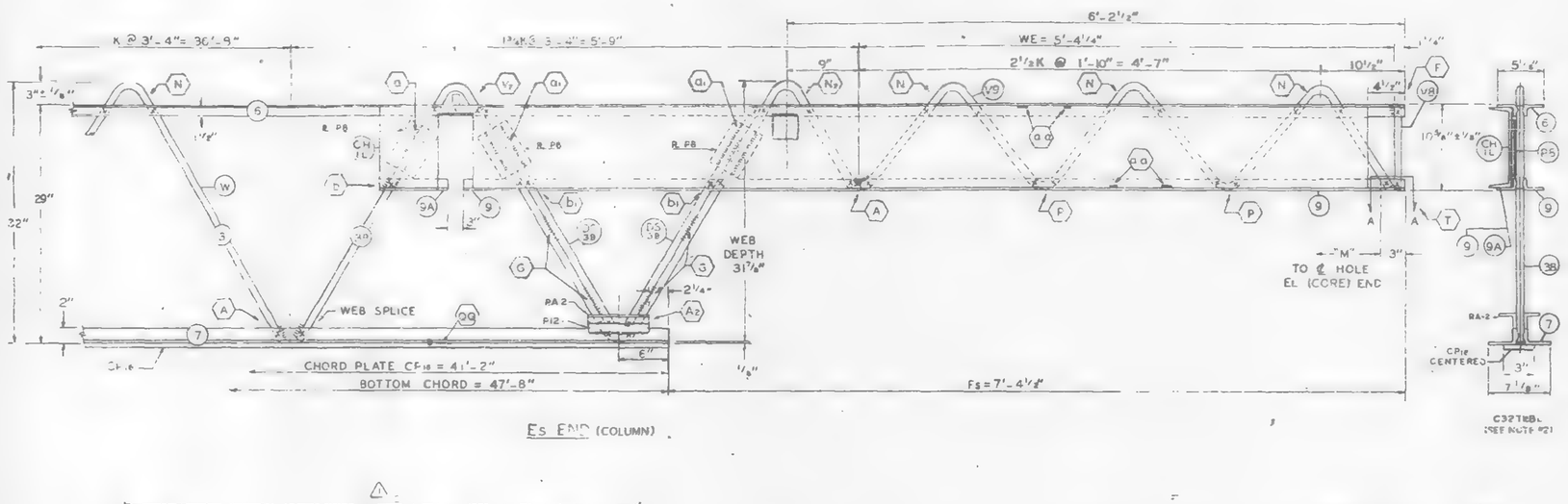
CORE END Es EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "St" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T16AL-599	9v	A242	2½"x1½"x.25"	1'-7"	5'-1 1/4"	10	A242	L14	9'-8 1/2"	5	A242	L16	2'-4 5/8"	A242	L14	4 3/8"	—	—	—	A242	L14	2'-2 1/8"	-	—	—	—	—	—	—	—

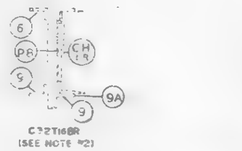
FLOOR TRUSS DETAILS FOR WORLD TRADE CENTER – N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T16AL (SEE NOTE 2) x 59'-9" LONG	
WORLD TRADE CENTER TOWERS A & B	
FABRICATION BY: LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-ABI-15 — PLATE
APPROVED FOR FABRICATION BY: FOR P.A.N.Y.A. — DATE	DRAWN BY gdc DATE OCT. 21, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY T.M.CHURA DATE OCT 9 1968 — IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER	FABRICATION CONT. NO W.T.C. 221 — SHEET NO. ST 216AL



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 7/16"	± 3/8"
DESIGN DEPTH	32"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31'-7 8"	± 1/4"

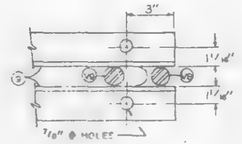




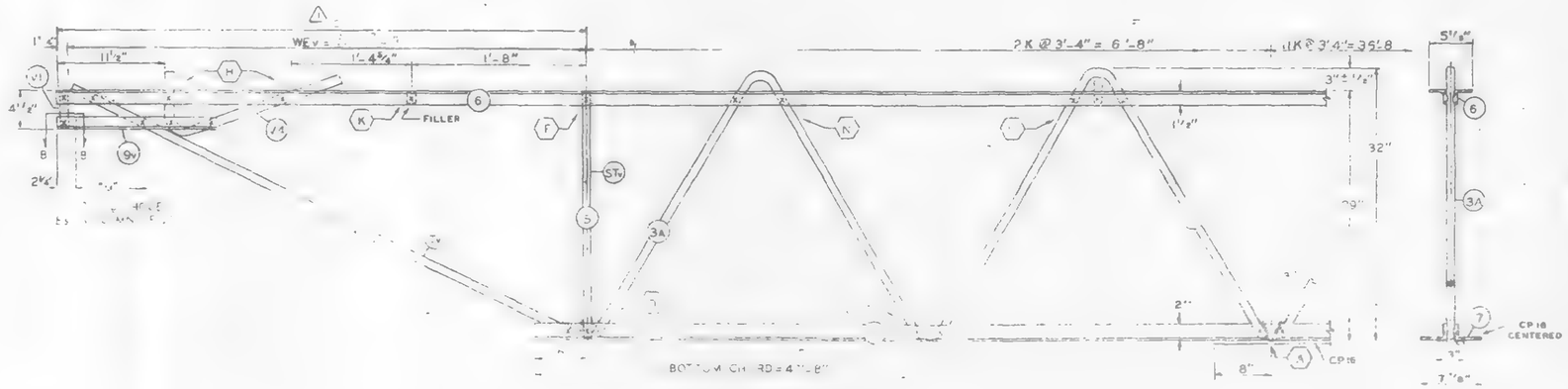
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (WELD).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., RQ.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

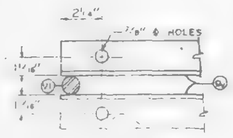
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16BL TRUSSES ARE APPLICABLE TO C32T16BR TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A





NO.	DATE	REVISION	BY
1	7-8-69	AS NOTED	DCC

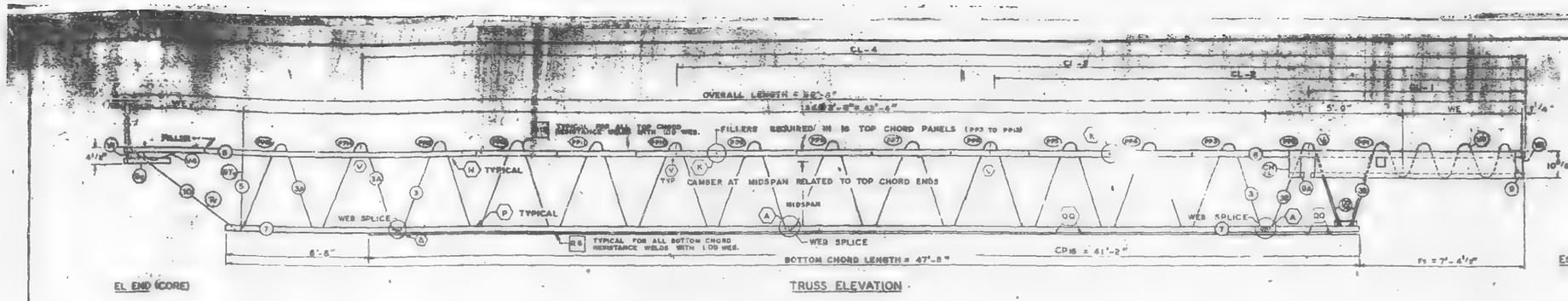
REF DRWG

7-AB1-15	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	3-5-68
7-AB3-24	8-15-68
7-AB3-27	10-4-68
SA-24	1-6-69
7-AB1-95	10-15-68
7-AB4-172	12-20-68

PAINT

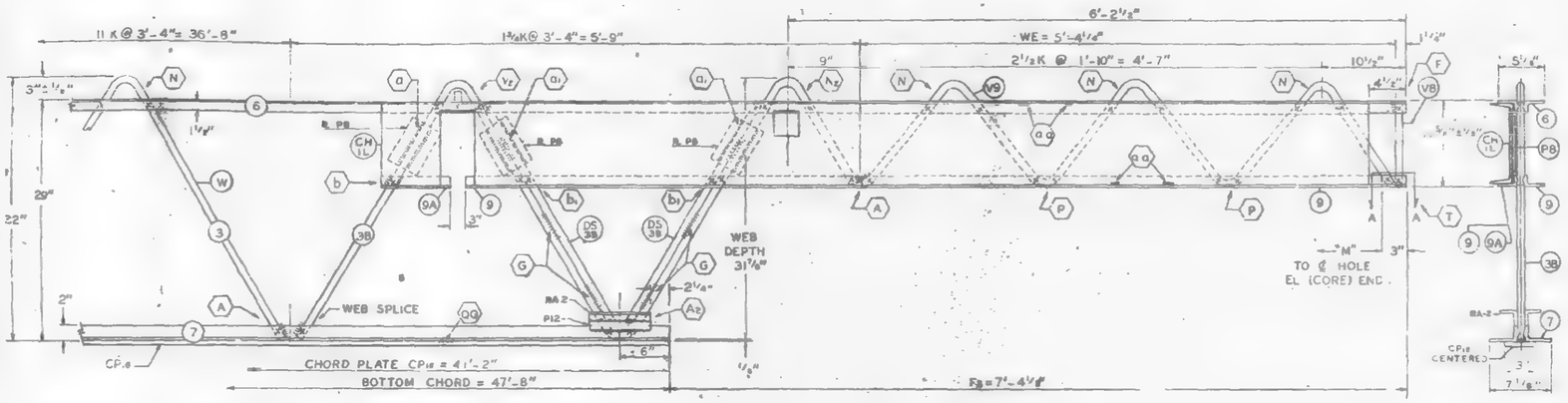
ALKYD ELECTROCOAT
RED OXIDE (1001)

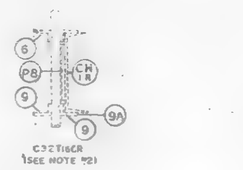
| TRUSS | TOP CHORD | | |



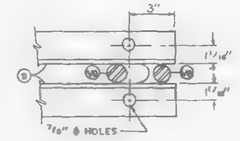
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	± 1/16"	± 1/16"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/16"
OVERALL LENGTH	59'-8"	± 3/16"
WEB DEPTH	31 7/8"	± 1/4"





CH1R PLACED AS SHOWN FOR C32T16CR
CH1L PLACED AS SHOWN FOR C32T16CL

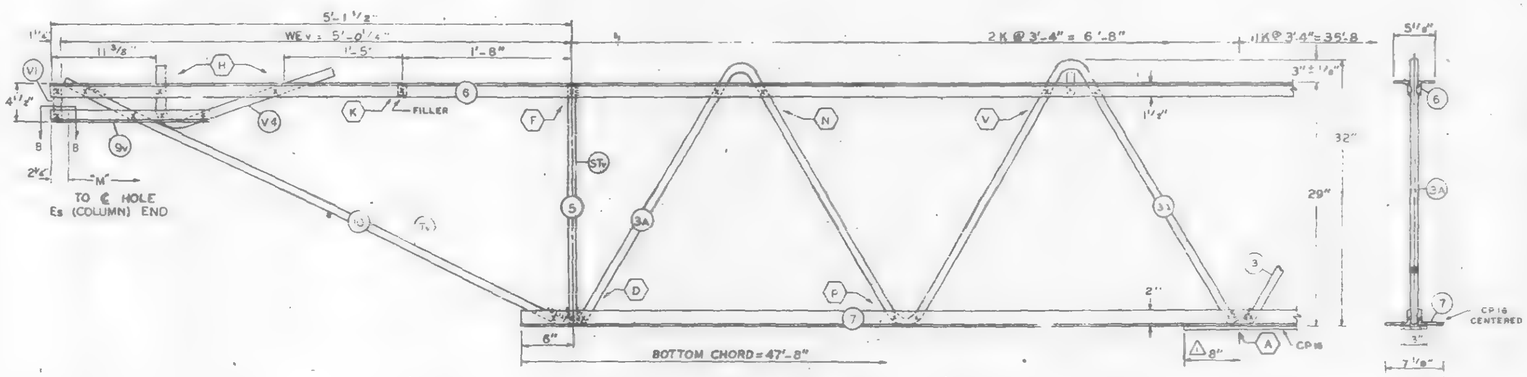


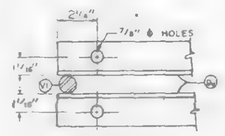
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (80).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST401.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16CL TRUSSES ARE APPLICABLE TO C32T16CR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.





SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

T-AB1-13	10-6-88
T-AB1-34	11-25-88
T-AB1-58	7-22-88
T-AB3-2	1-3-88
T-AB3-24	8-15-88
T-AB4-17 & 17.2	10-4-88
SA-124	10-11-88
T-AB1-59	10-15-88

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO.	FILLER DIA.	"M" C/C HOLES
C32T16CL-59'8"	6	A242	2 1/2" x 2 1/2" x .31	59'-8"	7	A36	3" x 2" x .33"	47'-8"	3	A36	109	68'-8 1/4"	11 K @ 3'-4" = 36'-8"	11	109	59'-2 3/4"
									3A	A242	109	12'-8"	2 K @ 3'-4" = 6'-8"			
									3B	A242	109	10'-7 5/8"	3 K @ 3'-4" = 9'-8"			

TRUSS DESIGNATION	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS MK.	TYPE STEEL	PCS	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE STEEL	ANGLE SIZE	2 REQ'D LENGTH	MK.	SPECIAL PLATES TYPE STEEL	SIZE	2 REQ'D LENGTH
C32T16CL-59'8"	16	A36	3"x25	41'-2"	4	A36	3	4"x39	5 1/2"	D8	A36	C15x33.9	7'-11"	R6	A36	5"x2"x.33"	7'-11"	P12	A36	1"x8"	7'-11"

Es TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 DIA.	LENGTH	MK. V9 DIA.	LENGTH	MK. V10 DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T16CL-59'8"	8	A242	2 1/2" x 2 1/2" x .25	2	9'-5"	5'-4 1/16"	D5	A242	1 1/4	2'-8 3/4"	—	—	—	—	A242	1 1/4	10'-1/2"	A242	1 1/4	8'-3 7/8"	—	—	—	—
																					C1R	A36	10" 30	10'-0"
																					C1L	A36	10" 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	F
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	1/2"

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEw	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V5 DIA.	LENGTH	MK. V6 DIA.	LENGTH	MK. V4 DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T16CL-59'8"	9v	A242	2 1/2" x 2 1/2" x 25	1'-6"	5'-0 1/8"	10	A242	1 1/4	8'-5 1/2"	5	A242	1 1/4	2'-4 3/8"	A242	1 1/4	6'-0 1/8"	—	—	—	A242	1 1/4	2'-2 1/2"	—	—	—	—	—

PLATE
SHEET ST 210

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T16CL (SEE NOTE 2) x 59'-8" LONG

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. T-AB1-15

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 4/7/89

DRAWN BY: DJO DATE MAR. 28, 1989

APPROVED FOR FABRICATION BY _____ FOR FABRICATOR DATE

CHECKED BY: T.M. CHIRA DATE MAR 28 1989

IN CHARGE OF PROD. DEV.

DETAILED BY: A CARL WEBER

FABRICATION CONT. NO. W.T.C. 221

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL R	5'-4"	± 1/8"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

TRUSS ELEVATION

ES END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (welded).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (RB).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17BL TRUSSES ARE APPLICABLE TO C32T17BR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

C32T17BR (SEE NOTE #2)

CHIR PLACED AS SHOWN FOR C32T17BR
CHIR PLACED AS SHOWN FOR C32T17BL

C32T17BL (SEE NOTE #2)

SECTION A-A

ES END (COLUMN)

EL END (CORE)

MK	DATE	REVISION	BY
1	5-6-69	AS NOTED	D.C.C

REF DRWG.

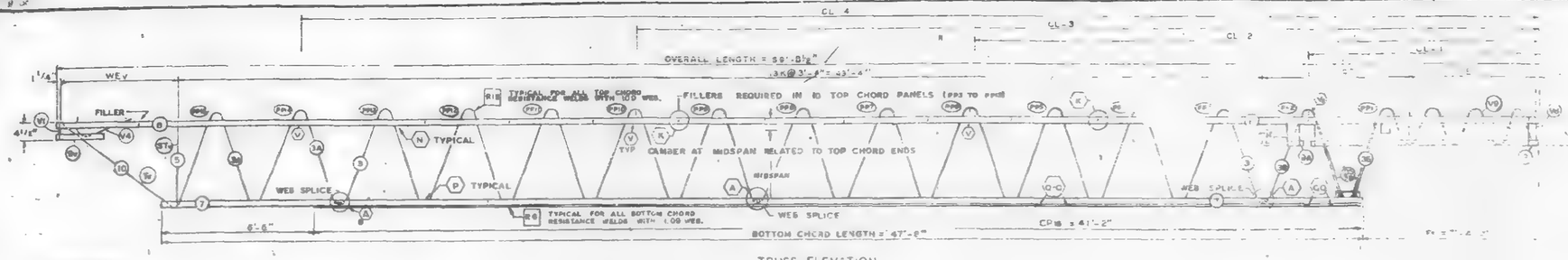
7-AB1-18	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17	10-4-68
SA-124	1-6-69
7-AB1-55	10-18-68
7-AB4-17.2	12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
A.M.S. TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

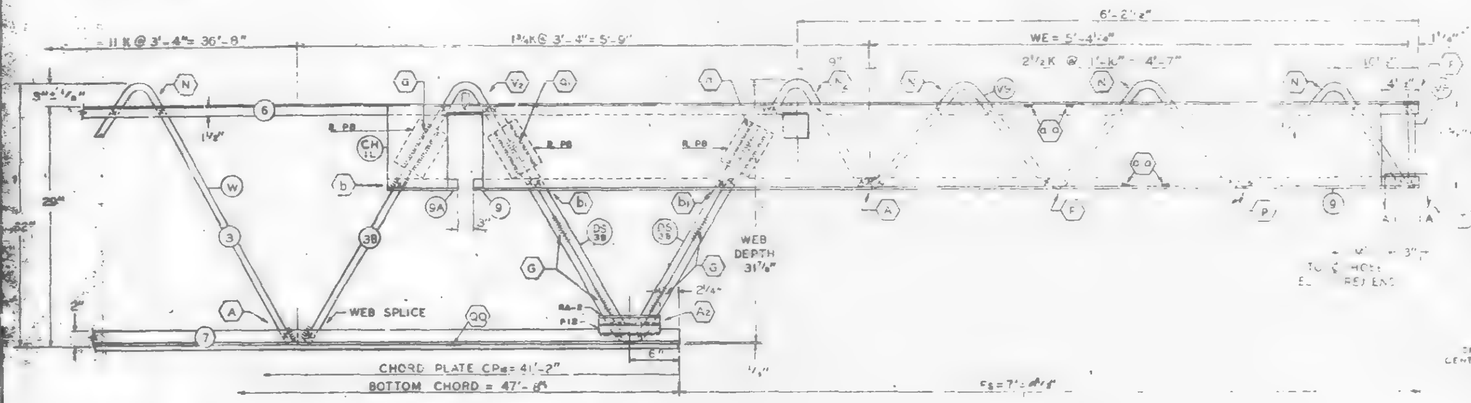
FLOOR TRUSS C32T17BL (SEE NOTE 2) X 59'-8½"
WORLD TRADE CENTER TOWERS A & B

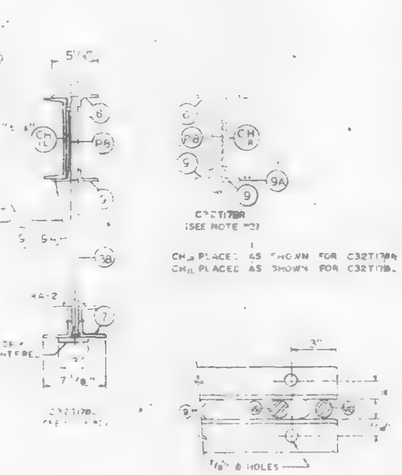
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PLANT A — DATE 6/4/69
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR — DATE ___
DETAILED BY R. CARL WEBER
DESIGN DRAWING NO 7-AB1-18
DRAWN BY ___ DATE APRIL 11, 1969
CHECKED BY T.M. CHIN DATE APRIL 11, 1969
FABRICATION CONT NO W.C. 221



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL F	4'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

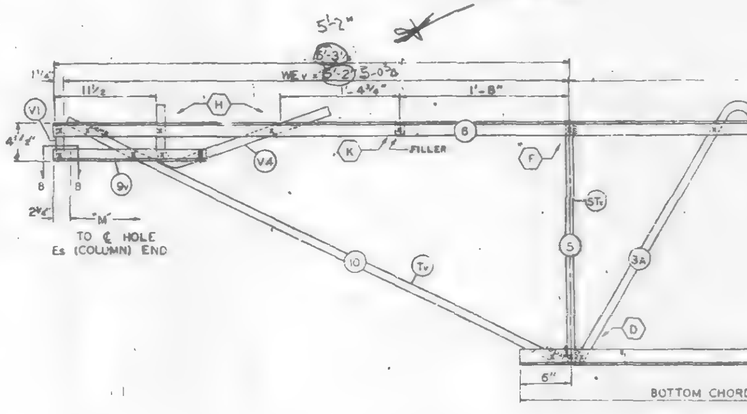


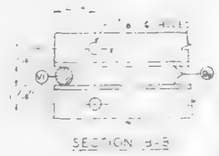


ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (Arc).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R10.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST294, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17BL TRUSSES ARE APPLICABLE TO C32T17BR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.





NO	DATE	REVISION	BY

SKILLING · HELLE CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED
APPROVED AS NOTED
RESUBMIT
REJECTED
Date 4/30/69 By SK

REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17	10-4-68
5A-1124	1-6-69
7-AB1-55	10-18-68
7-AB4-17.2	12-20-68

PAINT
INTERIOR ELECTROCOAT
SPEC. NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	SIZE	LENGTH	REINFORCING ANGLES NO	DIA	LENGTH	MK	TYPE STEEL	ANGLE SIZE	2 REQ'D LENGTH	SPECIAL PLATES MK	TYPE STEEL	SIZE (2 REQ'D)	LENGTH
C32T17BL 59B5	6	A242	2½x1½x.31	59'-8½"	7	A36	3" x 2" x .33"	47'-8"	1	A36	.109	58'-8 1/4"	1 K @ 3'-4" = 3'-4"	11	.109	59'-8 1/4"	CP16	A36	3½x.25	4	2"	4	.109	3"	R01	A36	4½x.35	6"	R02	A36	3½x3½x7/16	7'-8"	P12	A36	1"x3/4"	7'-8"
									2	A242	.114	12'-6 1/4"	6 K @ 3'-4" = 20'-0"																								
									10	A242	.114	10'-7 3/8"	3 K @ 3'-4" = 5'-0"																								

TRUSS DESIGNATION	Es END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WEv	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. VIII TYPE STEEL	DIA	LENGTH	MK. V8 TYPE STEEL	DIA	LENGTH	MK. VIII TYPE STEEL	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T17BL-59B5	EL END	9	A242	2½"x1½"x.25	2	5'-4"	5'-4½"	05	A242	1.14	2'-6 3/4"	-	-	-	-	A242	1.14	10½"	A242	1.14	8'-3 7/8"	—	—	—	CH16	A36	L0 30 L0C 80	10'-0"
		10	A242	2½"x1½"x.25	2	5'-4"																			CH16L	A36	L0 30 L0C 80	10'-0"

TRUSS DESIGNATION	Es END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "St" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. VI TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T17BL-59B5	EL END	9v	A242	2½"x1½"x.25	1'-6"	5'-2"	10	A242	1.14	5'-8 1/8"	5	A242	1.14	2'-4 1/8"	A242	1.14	4 5/8"	—	—	—	A242	1.14	2'-5 1/2"	-	—	—	—	-	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

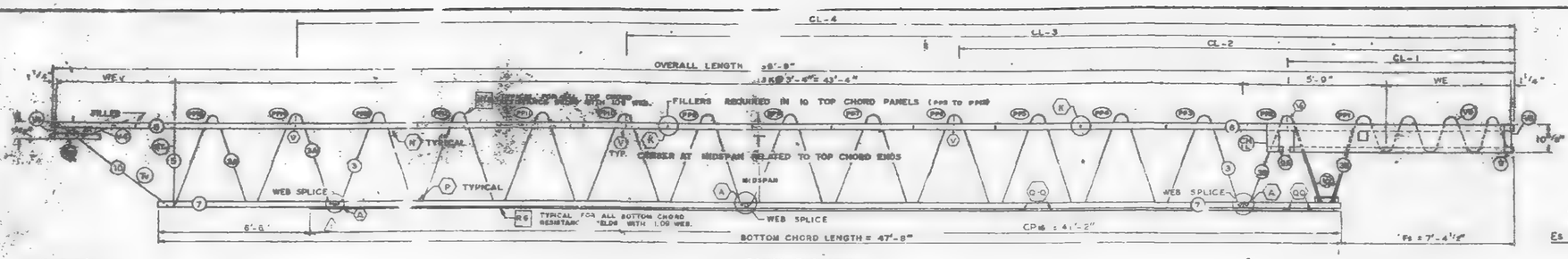
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	ES
9'-6½"	22'-10½"	36'-2¼"	49'-6½"	7'-4⅝"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17BL (SEE NOTE 2) x 59'-8½"
WORLD TRADE CENTER TOWERS A & B

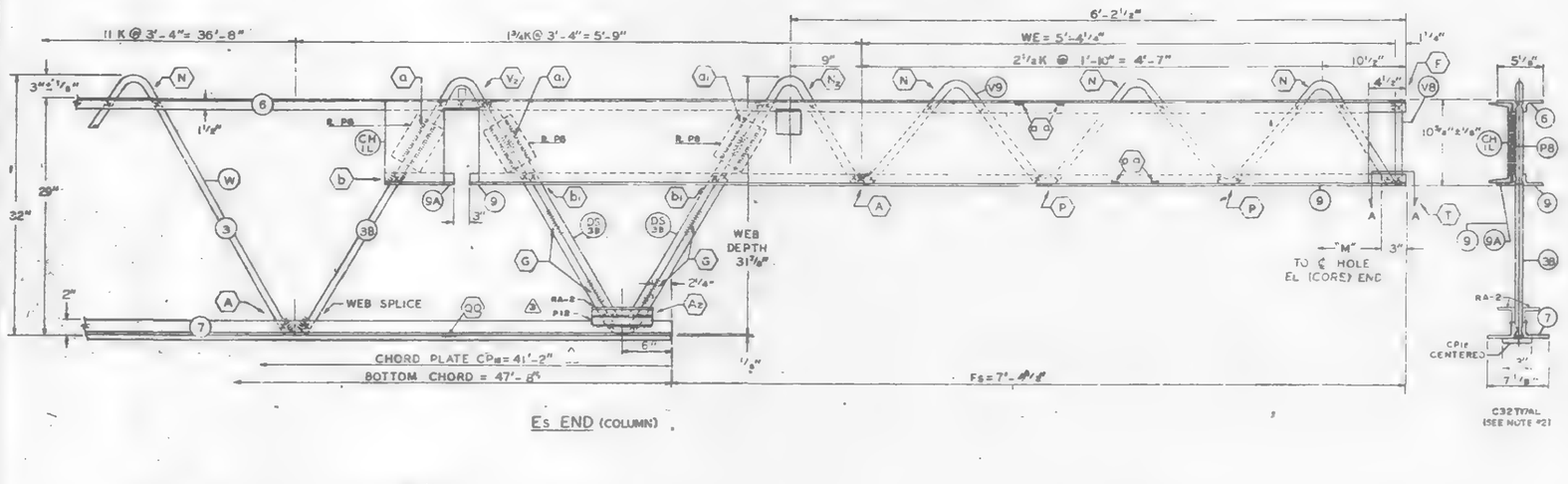
FABRICATION BY LACLEDE STEEL COMPANY

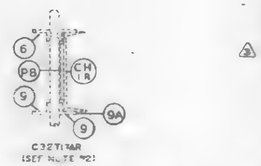
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-16	PLATE
APPROVED FOR FABRICATION BY — FOR PLANT A	DATE	DRAWN BY SAC DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
FAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 2178L



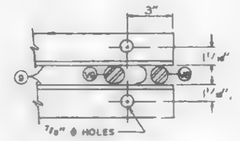
TRUSS ELEVATION

FABRICATION REQUIREMENTS	
CAMBER AT MIDSPAN	
DESIGN DEPTH	
PANEL "	
OVERALL LENGTH	
WEB DEPTH	





CH$_R$ PLACED AS SHOWN FOR C32T17AR
CH$_L$ PLACED AS SHOWN FOR C32T17AL

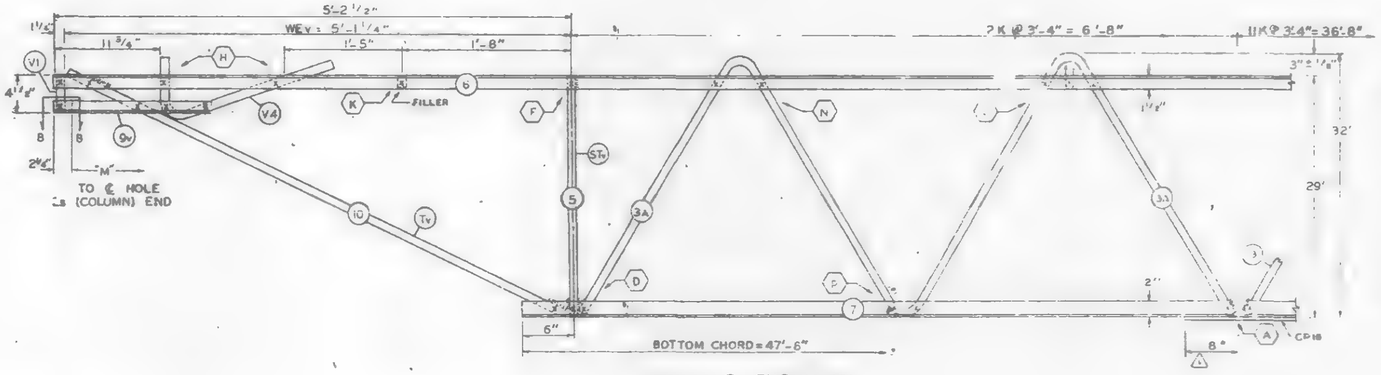


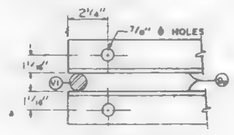
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (ARC WELD).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [PB].
(2) ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CH(R) AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.





SECTION B-B

NO	DATE	REVISION	BY
(3)	12-10-68	AS NOTED	G.D.C.
(2)	11-7-68	AS NOTED	G.D.C.
(1)	10-31-68	CP16 -	LWM

(3) REF. DRWG.

7-ABI-16	10-4-68
7-ABI-34	11-25-68
7-ABI-53	7-22-68
7-AB2-2	1-3-68
7-AB3-28	8-15-68
7-AB4-17 & 17.2	10-4-68
8A-126	10-11-68
7-ABI-58	10-16-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CHORD PLATE (1)				CONNECTION FILLERS			CHANNEL PLATES				REINFORCING ANGLES				SPECIAL PLATES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T17AL-599	6	A242	2"x1 1/2"x 31	59'-9"	7	A36	3" x 2" x .33"	47'-8"	3	A36	1.09	60'-6 1/4"	11 K @ 3'-4" = 36'-8"	11	1.09"	59'-3 3/4"	CP16	A36	3"x25	4'-2"	4	1.09	3"	PB	A36	3	4 1/2"x.39	5'-2"	RA2	A36	7 1/2"x 8.38"	7'-1"	PI2	A36	1"x 3/4"	7'-1"
									3A	A242	1.16	12'-8 1/2"	2 K @ 3'-4" = 6'-8"																						
									3B	A242	1.16	12'-7 1/2"	3 K @ 3'-4" = 10'-0"																						

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER										CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	8	A242	2"x1 1/2"x .25"	2	5'-5"	5'-4 1/8"	PS	A242	1.14	2'-6 3/4"	-	—	—	—	A242	1.14	10'-1/2"	A242	1.14	8'-3 7/8"	—	—	—	CHL	A36	10" 30	10'-0"
		9A	A242	2"x1 1/2"x 29"	2	5'-7 3/4"																			CHR	A36	10" 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/8"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE$_V$	DIAGONAL "T$_V$" STRUT				VERTICAL "ST$_V$" STRUT				"D" STRUT								DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9v	A242	2"x1 1/2"x .25"	1'-7"	5'-1 1/8"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.16	4' 3/8"	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—	—	—	—	—

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17AL (SEE NOTE 2) x 59'-9"

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 12/6/68

APPROVED FOR FABRICATION BY _____ FOR FABRICATOR — DATE

DETAILED BY: A. CARL WEBER

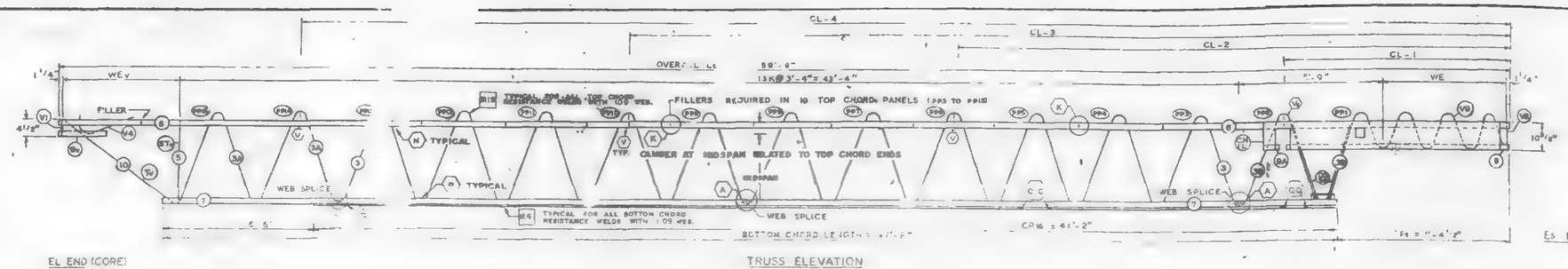
DESIGN DRAWING NO. 7-ABI-15 — PLATE

DRAWN BY: GDC — DATE: OCT. 8, 1968

CHECKED BY: EM.CHURA — DATE OCT. 8, 1968

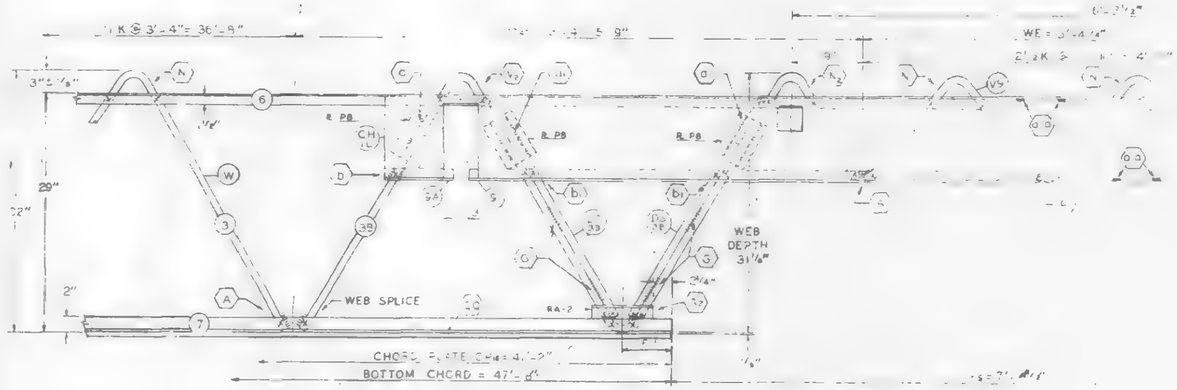
FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. ST. 21

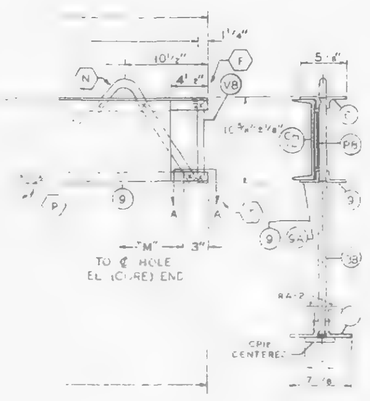
IN CHARGE OF PROD. MGT.

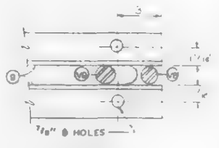


TRUSS ELEVATION

FABRICATION REQUIREMEN	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/64"
OVERALL LENGTH	59'-0"	± 1/8"
WEB DEPTH	31 7/8"	± 1/4"







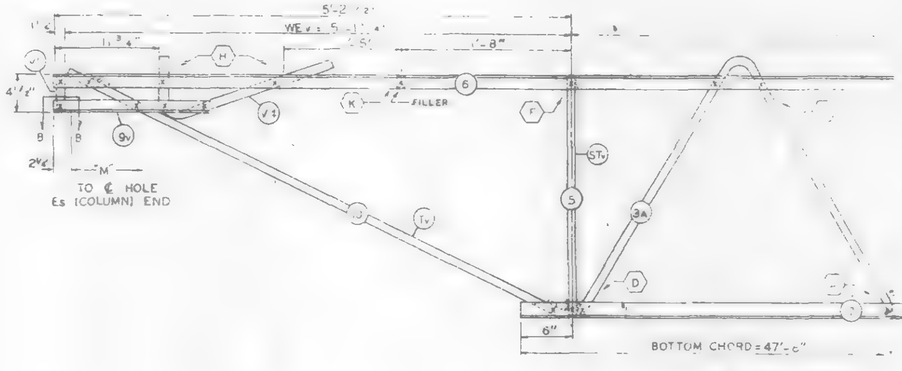
SECTION A-A

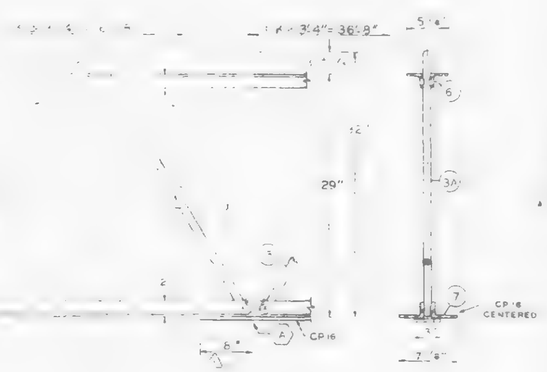
ALL PANEL POINT RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (WELDING).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (RG).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST294.

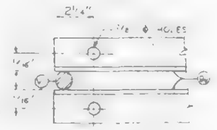
ALL CHANNEL DETAILS SHOWN ON SHEET ST 402.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.







SECTION B-B

NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	
1	10-31-68	CP16	VM

℄ REF. DRWG.

7-ABI-19	10-4-68
7-ABI-54	10-4-68
7-ABI-53	7-22-68
7-ABI-8	10-3-68
7-ABI-24	8-5-68
ABI-10 & 17.2	10-4-68
SA 24	8-11-68
7-ABI-58	10-16-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 16001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOT CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER "V" HOLES NO	DIA	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T17AL-599	6	A242	2"x1 1/2"x 31	59'-9"	7	A36	3" x 2" x 33"	47'-8"	3	A36	1.00	68'-8 1/4"	11 K @ 3'-4" = 36'-8"	109	53/64"	36	4"x2"	4	2	5'-4"	RA-2	A36	5/16" x 2" x 33"	7 1/2"	
									3A	A242	1.14	110'-7 5/8"	3 @ K @ 3'-4" = 10'-0"												
									3B	A242	1.14	110'-7 5/8"	3 @ K @ 3'-4" = 10'-0"												

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK, V8 TYPE STEEL	DIA	LENGTH	MK, V9 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	8	A242	2" x 2" x 25"	1	1'-5"		9A	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	—	C9A	A36	7" x 3" x 25"	10'-6"
		9A	A242	2" x 2" x 25"	1	1'-5"																				C9B	A36	7" x 3" x 25"	10'-6"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36' 2"	49'-6 1/2"	7' 4 1/2"

CORE END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL ST, STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK, V MK	TYPE STEEL	DIA	LENGTH	MK, V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9A	A242	C9 x 25	1'-7"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—

EL END (CORE)

TRUSS DESIGNATION	LOCATION
C32T17AL	CL-1
C32T17AR	CL-4

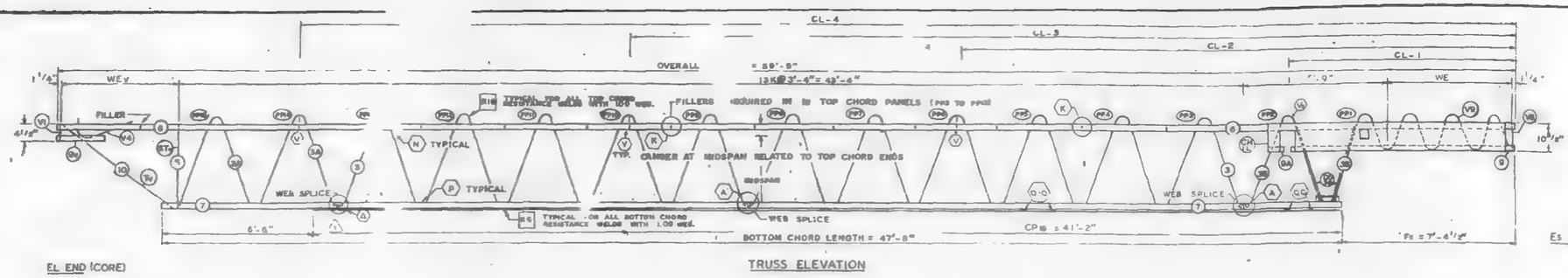
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17AL (SEE NOTE 2) @ 59'-9"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 11/18/68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A CARL KELLER
DESIGN DRAWING NO. 7-ABI-16
DRAWN BY gdc DATE OCT. 8, 1968
CHECKED BY T.M.CHURA DATE OCT 9 1968
FABRICATION CONT NO WTC 221
PLATE
IN CHARGE OF PROD DEV
SHEET NO ST 217AL

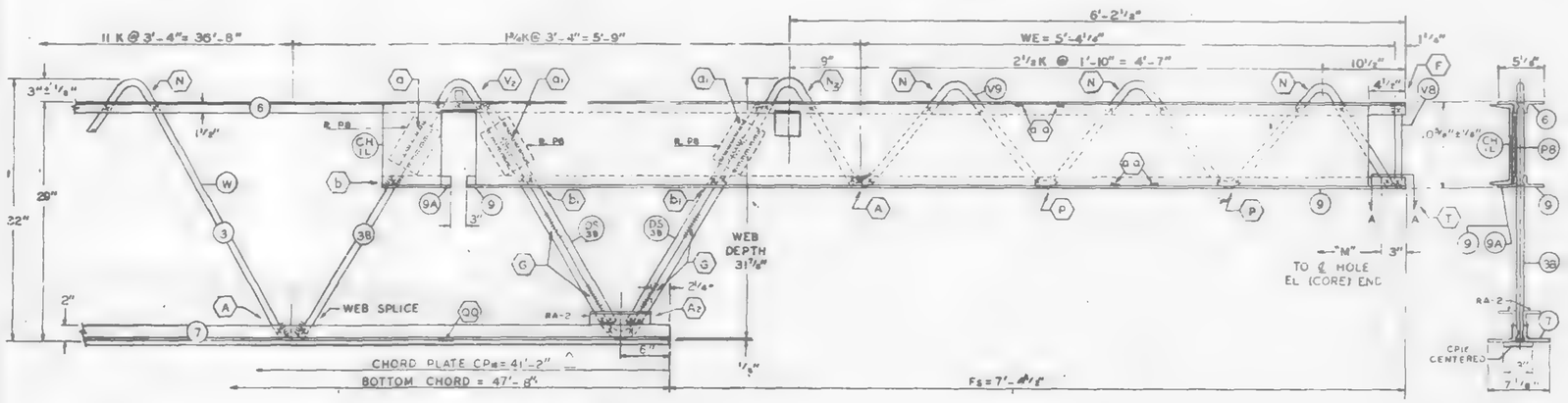
1100-1199

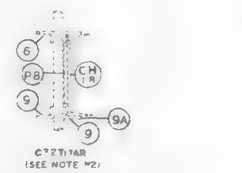
WTC1-131-LERA



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	- 3/8"
WEB DEPTH	31 7/8"	± 1/4"



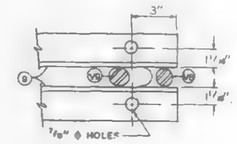


ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (fillet).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R8].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291.

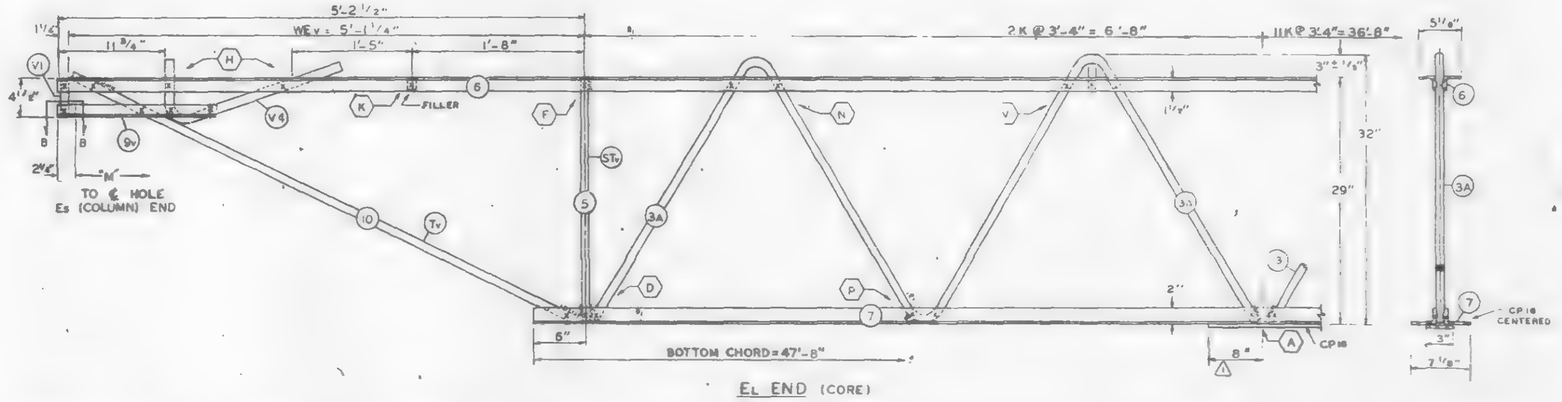
ALL CHANNEL DETAILS SHOWN ON SHEET ST 401.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

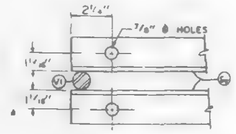
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A





SECTION B-B

NO	DATE	REVISION	BY
1	10-31-68	CP 16	WH

REF. DRWG.

7-AB1-18	8-15-68
7-AB1-24	8-15-68
7-AB1-53 & 56	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" C/C HOLES	CHORD PLATE ⚠				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K			MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
C32T17AL-599	6	A242	2"x1 1/2 x .31	59'-9"	7	A36	3" x 2" x .33"	47'-8"	3	A36	1.09	6'-6 1/4"	11	109"	59'-3 3/4"	CP 16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA-2	A36	3"x 2"x.33"	7 1/2"		
									3A	A242	1.14	6'-5 1/2"	11 @ 3'-4" = 36'-8"																		
									3B	A242	1.14	6'-5 1/2"	1K @ 3'-4" = 3'-4"																		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER									CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA	MK. V10 LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	8	A242	2"x1 1/2"x.25"	2	5'-6"	5'-4 1/16"	10S	A242	1.14	2'-8 3/4"	-	-	-	-	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CHIL	A36	10 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	1'-7 1/2"																			CHIR	A36	10 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/2"	22-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/8"

CORE END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 S. obl.	MK. V2 A.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH										MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9v	A242	2"x1 1/2"x .25"	1'-7"	5'-1 1/4"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 3/4"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—	—	—	—	—

Es END	TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" C/C HOLES	CHORD PLATE ⚠				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
		MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K			MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
	C32T17AL-599	6	A242	2"x1 1/2 x .31	59'-9"	7	A36	3" x 2" x .33"	47'-8"	3	A36	1.09	6'-6 1/4"	11	109"	59'-3 3/4"	CP 16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA-2	A36	3"x 2"x.33"	7 1/2"		
										3A	A242	1.14	6'-5 1/2"	11 @ 3'-4" = 36'-8"																		
										3B	A242	1.14	6'-5 1/2"	1K @ 3'-4" = 3'-4"																		

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER									CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA	MK. V10 LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	8	A242	2"x1 1/2"x.25"	2	5'-6"	5'-4 1/16"	10S	A242	1.14	2'-8 3/4"	-	-	-	-	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CHIL	A36	10 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	1'-7 1/2"																			CHIR	A36	10 30	10'-0"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1 TYPE STEEL	MK. V1 DIA	MK. V1 LENGTH	MK. V2 S. obl.	MK. V2 A.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA	MK. V4 LENGTH	DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH										MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9v	A242	2"x1 1/2"x .25"	1'-7"	5'-1 1/4"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 3/4"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—	—	—	—	—

⚠	NO	DATE	REVISION	BY
	1	10-31-68	CP 16	WH

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17AL (SEE NOTE 2) x 59'-9"

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-ABI-16

PLATE

APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE 11/7/68

DRAWN BY: gdc
DATE OCT. 8, 1968

APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE

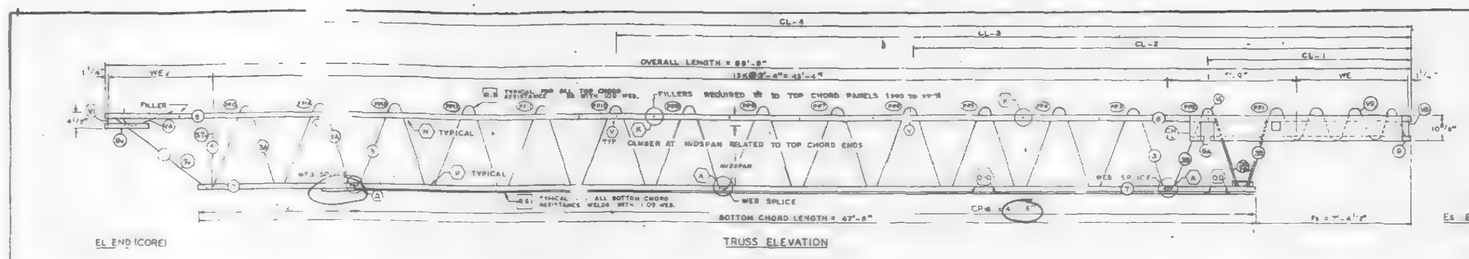
CHECKED BY: T.M.CHURA
DATE OCT. 8 1968

IN CHARGE OF PROD. DEV.

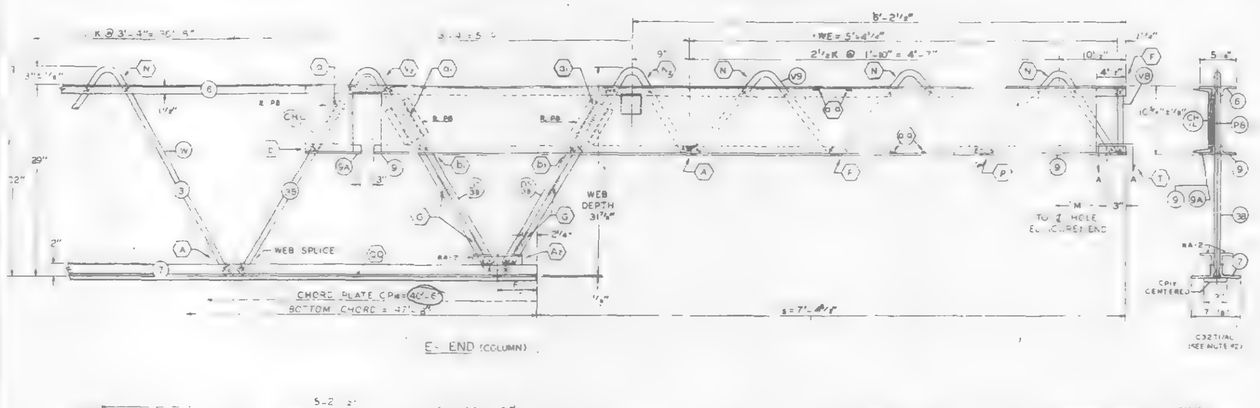
DETAILED BY: A. CARL WEBB

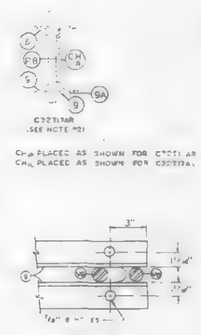
FABRICATION CONT. NO WTC 221

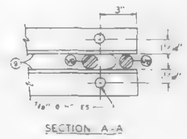
SHEET NO ST 217AL

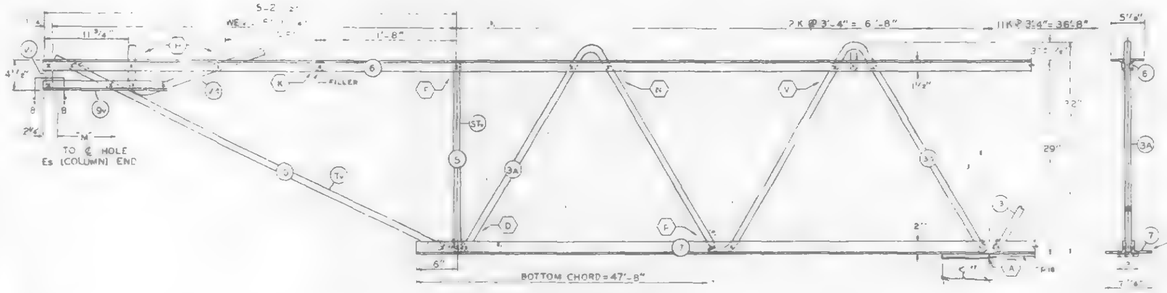


TRUSS ELEVATION

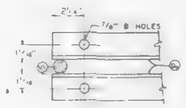








EL END (CORE)



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29	± 4"
PANEL K	3'-4"	± 4
OVERALL LENGTH	59'-9"	± 1'-0"
WEB DEPTH	3'-7 9/16"	± 1/4

ALL PANEL POINTS RESISTANCE WELDED (RW) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ONLY. LETTERS IN HEXAGON INDICATE WELD DETAILS. LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH AND LIFE IN THE QUALITY CONTROL PROGRAM. ALL WELD DETAILS SHOWN [illegible]

ALL CHANNEL DETAILS SHOWN [illegible] SHEET S-1
CHORD PLATE DETAILS SHOWN [illegible] SHEET S-1

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32TIAL TRUSS ARE APPLICABLE TO C32TIAR TRUSS WITH CHANNEL CHAIR AND BEARING ANGLE SO REVERSED [illegible]

NO	DATE	REVISION	BY

REF DRWG

7-AB1-6	8-3-68
7-AB-36	8-5-68
7-AB-53&55	7-22-68
7-62-2	7-5-68
7-AB4-69	8-1-68
7-AB4-17&172	6-5-68
Sp. 24	4-1-68

10/1/68 SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"W" ℄ HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES				REINFORCING ANGLES 2 REQ'D				TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF #	NO.	DIA		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	S-2E	LENGTH 1	
C32TIAL-599	6	A242	2"x1½"x¼ 3N	59'-9"	7	A36	3"x2"x.33"	47'-8"	[illegible]				1109	59	3/4	47 5/16	6	A36	3"x25	47'-8"	4	1.09	3	6	A36	3"x.39	5'-2"	9	A36	3"x3"x.33	7'-2"	
C32TIAR-599	6	A242	2"x1½"x¼ 3N	59'-9"	7	A36	3"x2"x.33"	47'-8"	[illegible]				1109	59	3/4	47 5/16	6	A36	3"x25	47'-8"	4	1.09	3	6	A36	3"x.39	5'-2"	9	A36	3"x3"x.33	7'-2"	

Es	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER								CHANNEL		
		MK	TYPE STEEL	CHORD SIZE	POS	LENGTH	MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK V8			MK V9			MK V10			MK	TYPE STEEL	C-ANNEL SIZE	LENGTH
															TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH				
COLUMN END	C32TIAL-599	8	A242	3"x3"x¼	Es	5'-6 1/16"	10	A242	.41	2'-6 1/4"	—	—	—	—	A242	1.14	10'-1/2"	A242	1.14	8'-3 7/16"	—	—	—	9	A36	10	10'-0"
	C32TIAR-599	8A	A242	3"x3"x¼	Es	5'-6 1/16"	10	A242	.41	2'-6 1/4"	—	—	—	—	A242	1.14	10'-1/2"	A242	1.14	8'-3 7/16"	—	—	—	9A	A36	10	10'-0"

CHECK DIMENSION FOR TRUSS FAB.					
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Es	
9'-6½"	22'-10¼"	36'-2¼"	49'-6¼"	7'-4½"	

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "Td" STRUT				VERTICAL "St" STRUT			END STIFFENER								DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1			MK V2			MK V4			MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
															TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH								
CORE END	C32TIAL-599	6	A242	3"x2½"x.25"	1'-7"	5'-11¼"	10	A242	1.14	5'-6 1/2"	5	A242	.14	2'-4 3/4"	A242	1.14	4'-3"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—	—	—

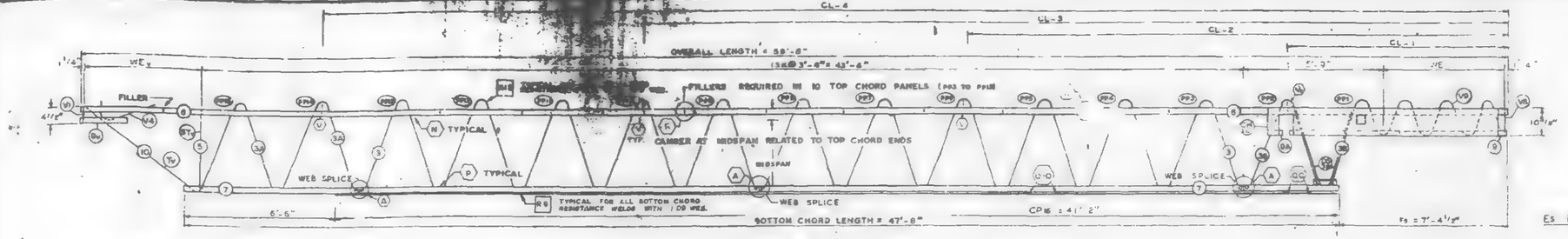
DETAILED BY: A. CARL WEBER	FABRICATION CONT. NO.	SHEET NO.
	WTC 22	S1 TIAL

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER -
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32TIAL (SEE NOTE 2) X 59'-9"

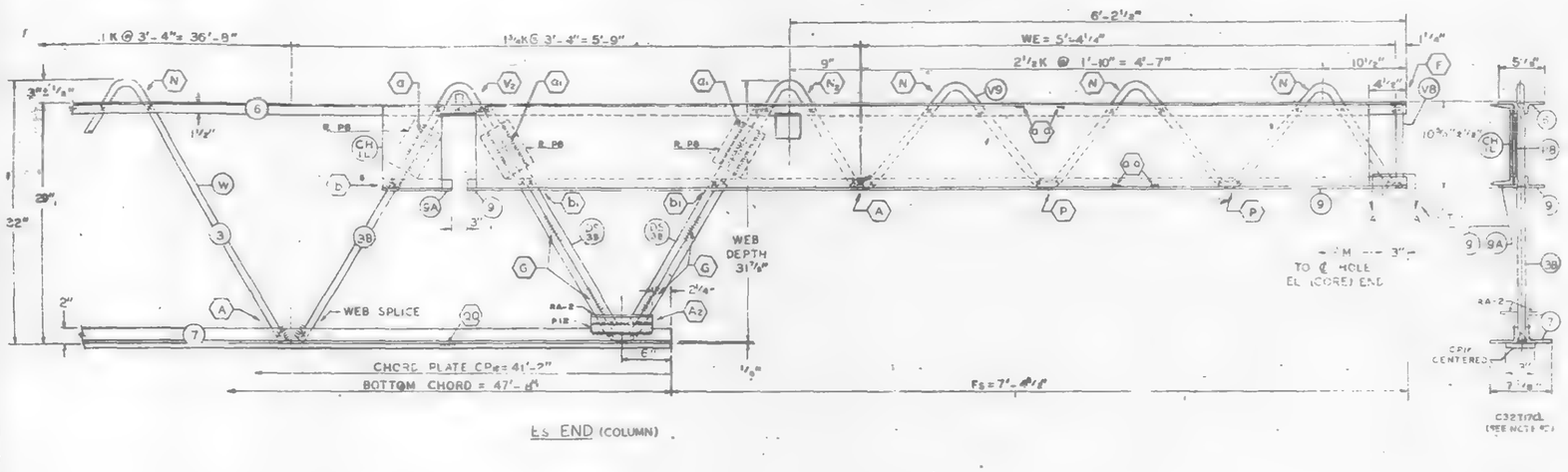
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY _____ FOR PONYA — DATE
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR — DATE
DESIGN DRAWING NO. 7-AB1-6 — SCALE
DRAWN BY [illegible] DATE OCT 8 '68
CHECKED BY [illegible] DATE OCT 9 '68



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	5'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

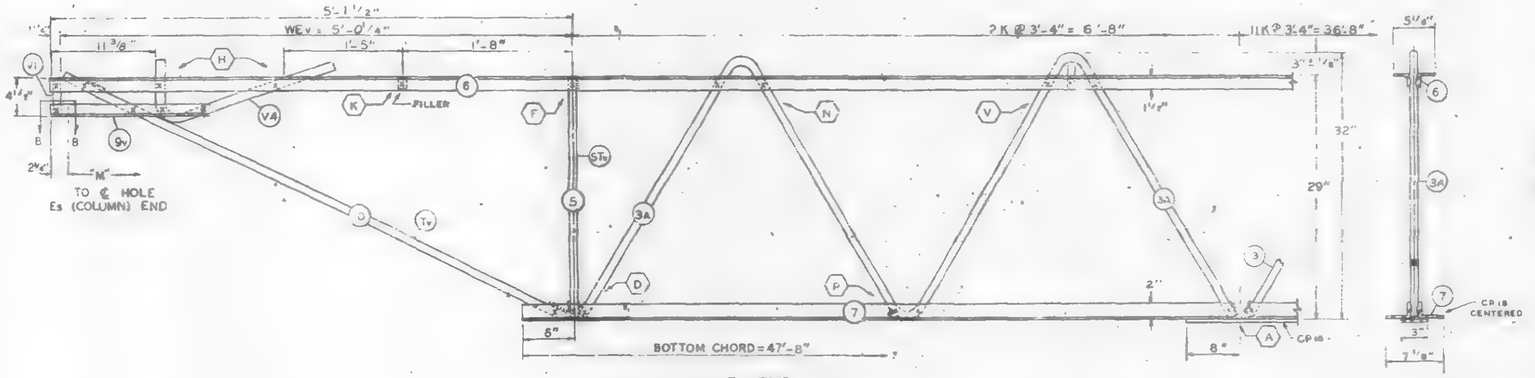


ALL PANEL POINTS RESISTANCE WELDED. (RW).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MANUAL).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., RQ.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17CL TRUSSES ARE APPLICABLE TO C32T17CR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

CHIR PLACED AS SHOWN FOR C32T17CR
CHIL PLACED AS SHOWN FOR C32T17CL



SECTION A-A

SECTION B-B

NO	DATE	REVISION	BY

REF. DRWG.

7-ABI-18	10-6-88
7-ABI-24	11-22-88
7-ABI-23	7-28-88
7-AB3-8	1-8-88
7-AB4-24	8-15-88
7-AB4-17 & 17Z	10-6-88
9A-124	10-11-88
7-ABI-25	10-18-88

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	FILLER DIA.	"M" CL. HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO.	DIA.	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE STEEL	ANGLE SIZE	LENGTH	NO. REQ'D	SPECIAL PLATES MK.	TYPE STEEL	SIZE	LENGTH
C32T17CL-598	6	A242	3"x2 1/2"x.31	59'-8"	7	A36	3"x2"x.33"	47'-8"	5	A36	1.09	5'-8 1/4"	11 K @ 3'-4" = 36'-8"	11	1.09	59'-2 3/4"	P	A36	3"x.25	4'-2"	4	1.09	3"	P6	A36	3	4 1/2"x.39	5"	R12	A36	3"x2"x.33"	7'-2"	P12	A36	1"x8"	7'-2"
					38	A242	1.14	10'-7 3/8"	3 K @ 3'-4" = 9'-8"																												

Es	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T17CL 598	9A	A242	3"x2 1/2"x.31	2	8 1/2"	5'-4 1/4"	38	A242	1.14	2'-6 3/16"	—	—	—	—	A242	1.09	10'-8"	A242	1.14	8'-3 7/8"	—	—	—	CHIL	A36	10 : 30	10'-6"
		9A	A242	3"x2 1/2"x.31	2	8 1/2"																						

El	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "St" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T17CL - 598	9v	A242	2"x1 1/2"x.25"	1'-6"	5'-0 1/4"	10	A242	1.14	5'-5 1/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/8"	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	
9'-6 1/2"	22'-10 1/2"	36'-2 1/8"	49'-6 1/2"	49'-6"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17CL (SEE NOTE 2) x 59'-8"

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY PONYA — DATE 4/7/89

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR — DATE ____

DETAILED BY: A. CARR

DESIGN DRAWING NO. 7-ABI-19

DRAWN BY: ____ DATE 4/26/89

CHECKED BY: T.M. CHUNG DATE 4/26/89

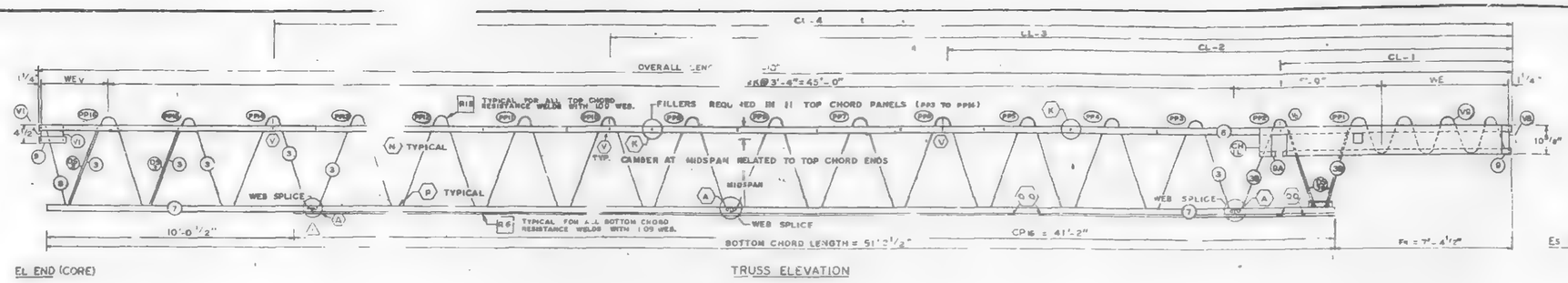
W.T.C. 221

PLATE ____

FABRICATION CONT. NO. ____

SHEET ST 21

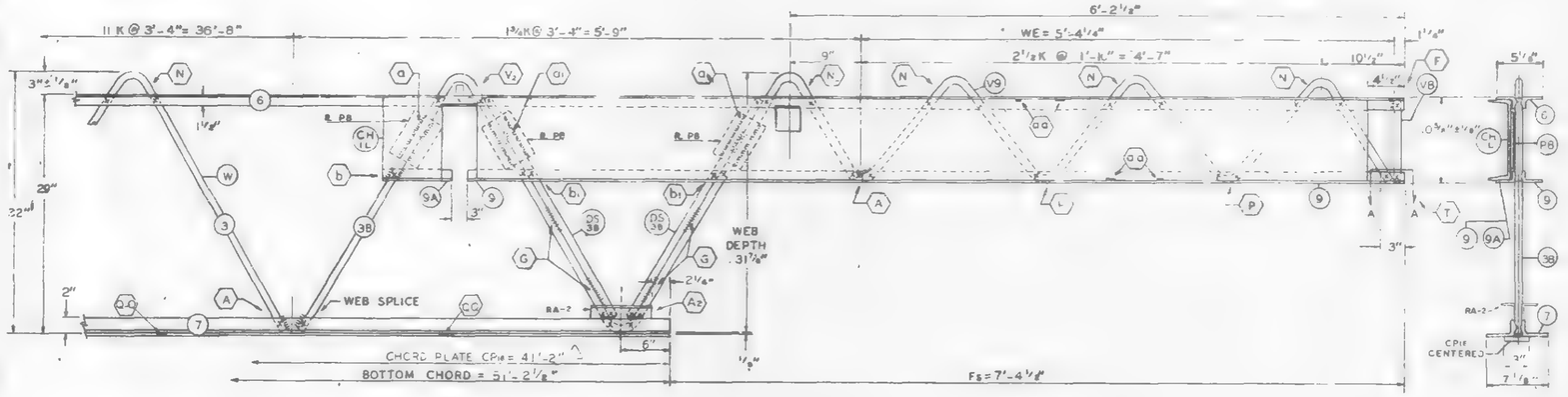
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3 "
WEB DEPTH	31 7/8"	± 1/4"



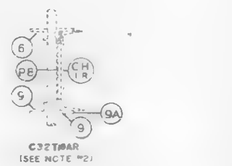
EL END (CORE)

TRUSS ELEVATION

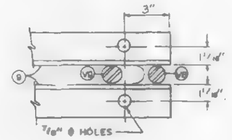
Es END (COLUMN)



Es END (COLUMN)



CH_R PLACED AS SHOWN FOR C32T18AR
CH_R PLACED AS SHOWN FOR C32T18AL

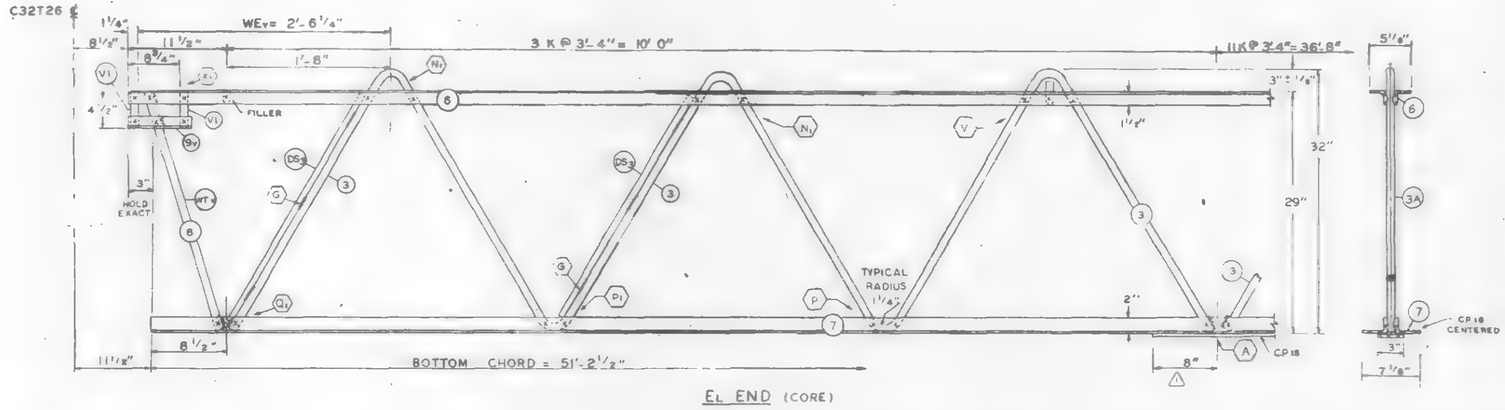


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (Arc).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., RB.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T18AL TRUSSES ARE APPLICABLE TO C32T18AR TRUSSES WITH CHANNEL CH_R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)

NO	DATE	REVISION	BY
1	10-31-68	CP16	LWH

REF. DRWG.

7-AB1-17	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 55	7-22-68
7-AB2-2	1-3-68
7-AB2-26	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68
7-AB4-13	8-15-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" C/C HOLES	CHORD PLATE 1				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH		
C32T18AL-5810	6	A242	2"x1 1/2"x 31	58'-10"	7	A36	3"x 2"x .33"	51'-2 1/2"	3B	A242	L14	10'-7 5/8"	13 K @ 3'-4" = 43'-4"	12	109		CP16	A36	3"x .25	41'-2"	4	109	3"	PB	A36	3	4 1/2"x.39	5 1/2"	RA-2	A36	3"x 2"x.33"	7 1/2"		

	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER								CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	Es END	9	A242	2"x1 1/2"x 25"	2	9'-6"	5'-4 1/4"	DS	A242	1 1/4	2'-6 3/4"	—	—	—	—	A242	L16	10'-1/2"	A242	L14	8'-3 7/8"	—	—	—	CH_L	A36	10	30	10'-0"
	C32T18AL-5810	9A	A242	2"x1 1/2"x 25"	1	8 1/2"																			CH_R	A36	10	30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/8"	49'-6 1/8"	7'-4 1/2"

	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END "TIFFENER (2 REQ'D) MK. V1				MK. V4				DOUBLE STRUT (2 REQ'D)				DOUBLE STRUT			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	END	C32T18AL-5810	9v	A242	2"x1 1/2"x 25"	10"	2'-6 1/4"	8	A36	.9	2'-3 1/2"	—	—	—	—	A36	.109	4 3/8"	—	—	—	—	—	—	—	DS 3	A242	.75	2'-6 3/4"	—	—	—	—

DETAILED BY A. CARL WEBER

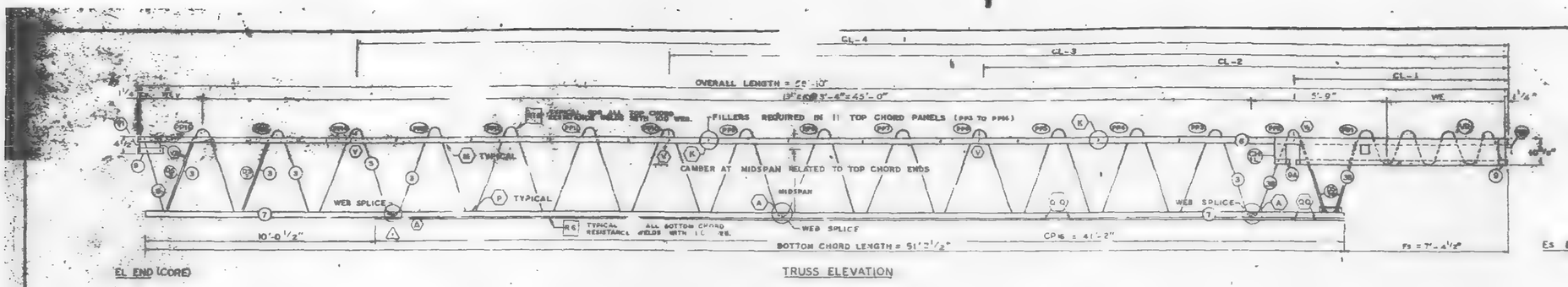
FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: FOR PONYA	DATE 11/7/68
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE
DESIGN DRAWING NO	7-AB1-7
DRAWN BY	DATE OCT. 5, 1968
CHECKED BY T.M. CHURA	DATE OCT 10, 1968
FABRICATION CONT NO	WTC 221
PLATE	
IN CHARGE OF PROD DEV.	
SHEET NO.	ST 218AL

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T18AL (SEE NOTE 2.) x 58'-10"

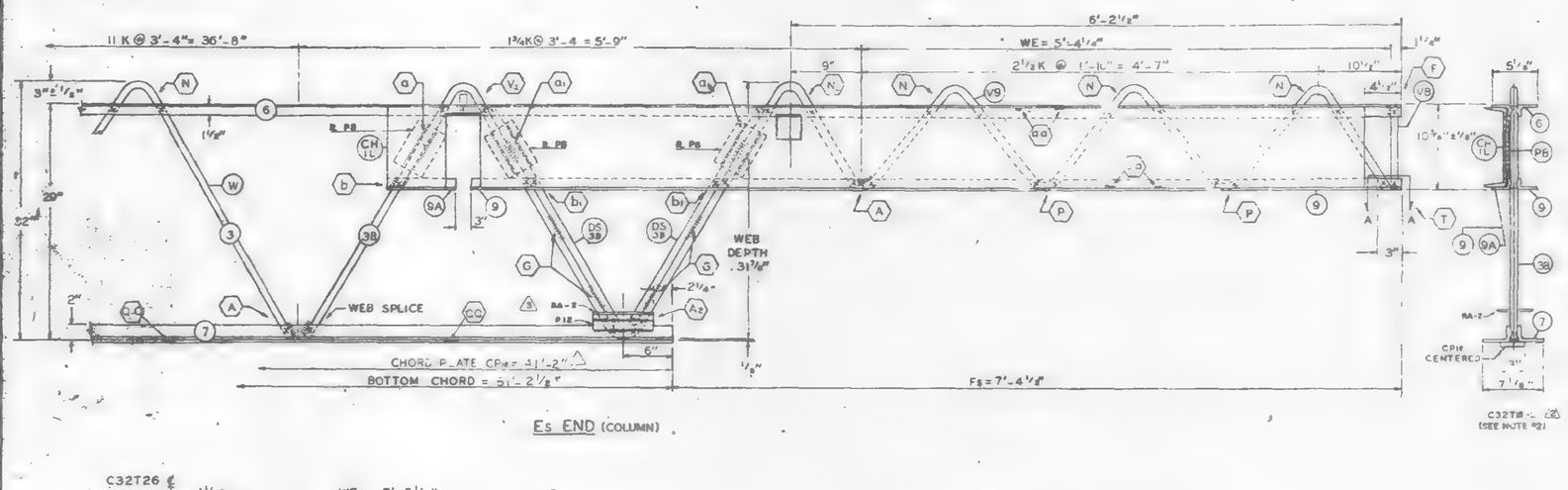
WORLD TRADE CENTER TOWERS A & B

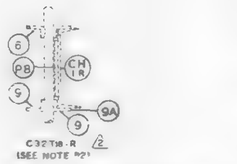
FABRICATION BY LACLEDE STEEL COMPANY



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLER.
CAMBER AT MIDSPAN	2 1/8"	± 3/8"
DESIGN DEPTH	32"	± 1/4"
PANEL K	3'-4"	± 1/16"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	29"	± 1/4"



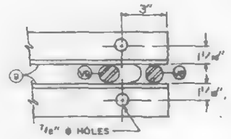


CH$_R$ PLACED AS SHOWN FOR C32T18-R
CH$_L$ PLACED AS SHOWN FOR C32T18-L (2)

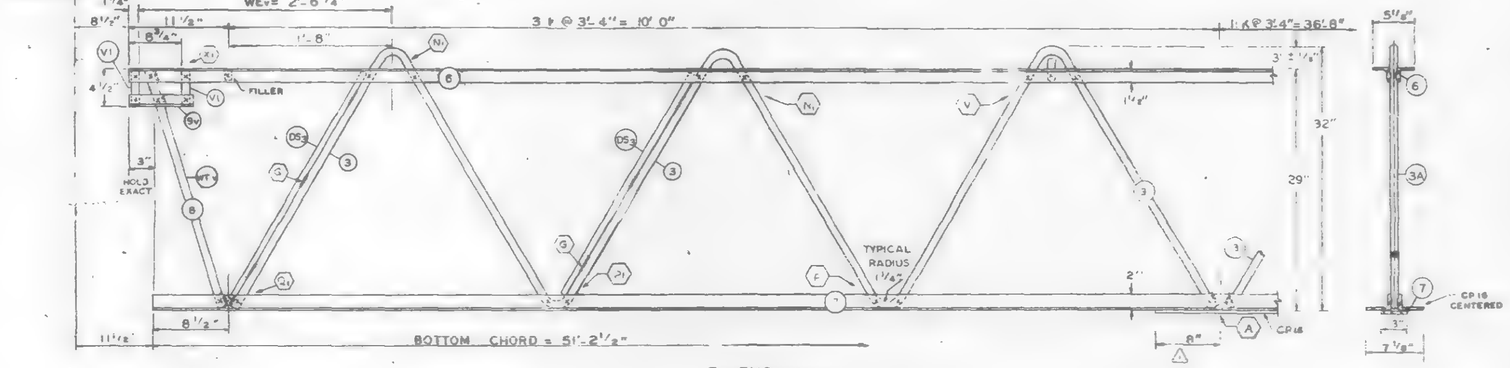
ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MIG).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., RQ.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST401.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T18 L (2) TRUSSES ARE APPLICABLE TO C32T18 R TRUSSES WITH CHANNEL CH18R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)

NO	DATE	REVISION	BY
3	12-10-68	AS NOTED	G.D.C.
2	11-7-68	AS NOTED	G.D.C.
1	10-31-68	CP16	L.W.H.

(3) REF. DRWG.

7-AB3-17	11-4-68
7-AB1-34	11-25-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & (2)	10-4-68
SA-124	10-11-68
7-AB4-13	7-22-68
7-AB1-38	10-18-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION (2)	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	FILLER DIA.	"M" c/c HOLES
C32T18-L-5810	6	A242	2"x1½"x.31	58'-10"	7	A36	3" x 2" x .33"	58'-2½"	38	A242	1.16	10'-7.3/8"	14 K @ 3'-4" = 46'-8"	12	1.09"	

TRUSS DESIGNATION (2)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO.	DIA.	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE & SIZE	ANGLE SIZE	(2 REQ'D) LENGTH	SPECIAL PLATES MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T18-L-5810	CP16	A36	3"x.25	41'-2"	4	1.09"	3"	P6	A36	3	4½"x.39	51'-2"	9AE	A36	3"x2"x.33"	7'-1½"	P1E	A36	11"x⅜"	7'-1½"

Es END	TRUSS DESIGNATION (2)	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T18 L 5810	9	A242	2"x1½"x.25	2	9'-5"	5'-4 1/4"	DS 9B	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH 9A	A36	10 : 30	10'-0"
		9A	A242	2"x1½"x.25	2	8'-1 1/2"																				A36	10 : 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

EL END	TRUSS DESIGNATION (2)	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE$_V$	DIAGONAL "T$_D$" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST$_V$" STRUT MK.	TYPE STEEL	DIA.	LENGTH	STIFFENER (2 REQ'D) MK. V6 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (2 REQ'D) MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T18-L-5810	9v	A242	2"x1½"x.25	10"	2'-6¼"	8	A36	.09	2'-5½"	—	—	—	—	A36	1.09	4'-3/8"	—	—	—	—	—	—	DS 3	A242	.75	2'-6½"	—	—	—	—

FABRICATION BY	LACLEDE STEEL COMPANY
FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY:	FOR P.O.N.Y.A. — DATE 11/16/68
APPROVED FOR FABRICATION BY:	FOR FABRICATOR — DATE
DETAILED BY	A. CARL WEBER
DESIGN DRAWING NO.	7-AB1-17
DRAWN BY:	G.D.C.
DATE	OCT. 8, 1968
CHECKED BY:	T.M. CHURA
DATE	OCT. 10, 1968
FABRICATION CONT. NO.	W.T.C. 221
PLATE	
IN CHARGE OF PROD. DEPT.	
SHEET NO.	ST-213

FLOOR TRUSS DETAILS

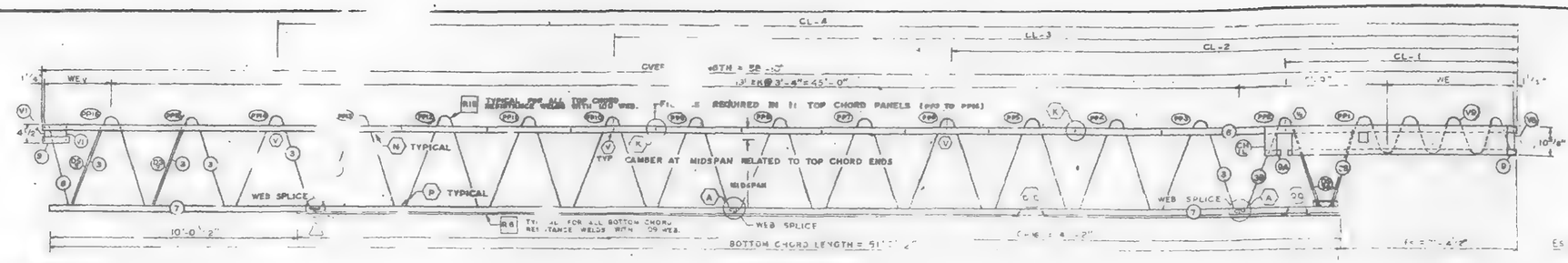
WORLD TRADE CENTER — N.Y.C.

FOR

THE PORT OF NEW YORK AUTHORITY

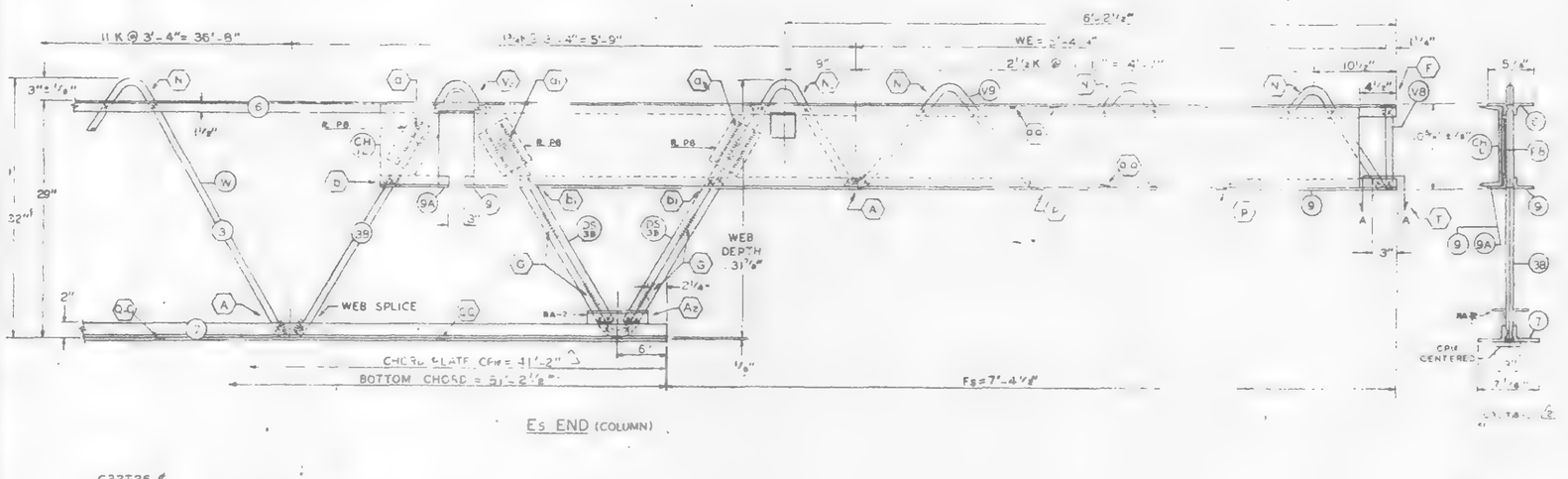
FLOOR TRUSS C32T18-L (2) (SEE NOTE 2) x 58'-10"

WORLD TRADE CENTER TOWERS A & B



TRUSS ELEVATION

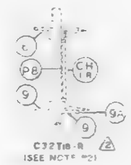
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



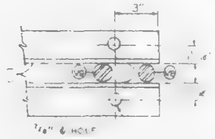
ALL PANEL POINTS RESISTANCE WELDED. (K).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MIG).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (9A).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

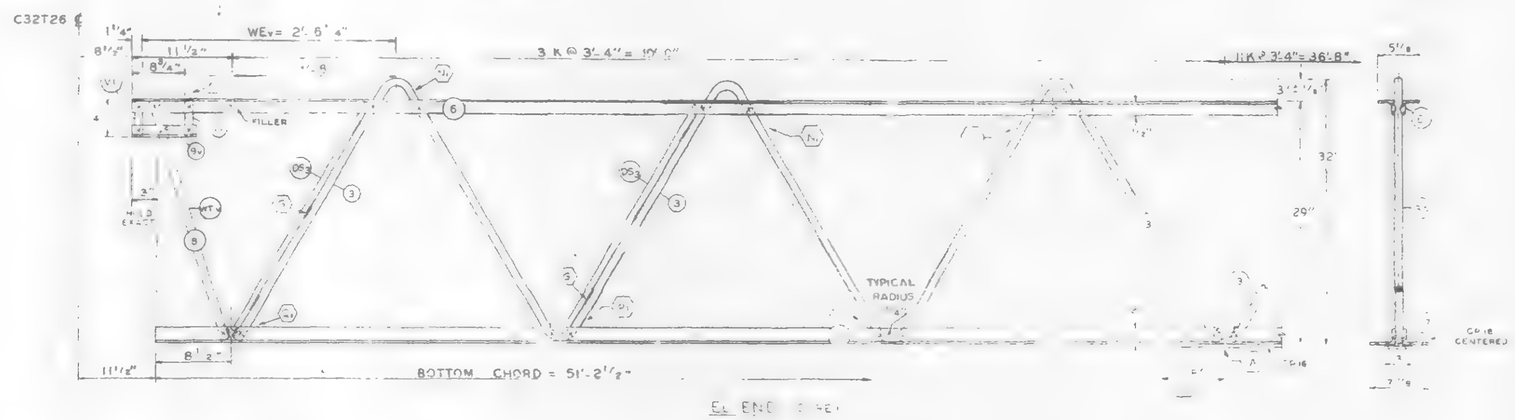
ALL DETAILS & ELEVATIONS SHOWN FOR C32T18-L TRUSSES ARE APPLICABLE TO C32T18 R TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



CHIR PLATE AS SHOWN FOR C32T18 R
CHIL PLATE AS SHOWN FOR C32T18 L



SECTION A-A



NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	SOC
1	10-31-68	CP 6	A H

REF. DRWG.

7-AB1-17	10-4-68
7-AH1-54	10-4-68
7-AB1-53	7-22-68
7-AB2-2	3-6-68
7-AB1-24	8-13-68
7-AB4-16	10-4-68
7-AB4-14	10-1-68
7-AB4-13	7-22-68
7-AB1-55	10-15-68

E ELECTROCOAT
REF. No. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "A" MK	TYPE STEEL	DIA	LENGTH	NO. OF X	WEB "W" ANGLES MK	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK	TYPE STEEL	SIZE	LENGTH	REINFORCING ANGLES 2 REQ'D MK	TYPE STEEL	SIZE	LENGTH	TRUSS WT.
C32T18 L-58'10 (2)	6	A242	2"x1 1/2"x 31	58'-10"	7	A36	2"x2"x 33"	5'-2 1/4"	38	A242	1/4	10'-7 5/8"	3	4 K @ 3'-4" = 48'-8"	1/2	1'-0"	5	A36	4"x 39	5'-2"	RA-2	4.78	3"x 2"	K 39"	7 1/8"	

ES END	TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PLS	LENGTH	WT.	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK V8	TYPE STEEL	DIA	LENGTH	MK V9	TYPE STEEL	DIA	LENGTH	MK V1	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T18 L-58'10	9A	A242	2"x1 1/2"x 25"	10"			8	A36	09	2'-3 3/4"	—	—	—	—	436	1/4	10'-7 5/8"	A242	1/4	9'-3 7/8"	—	—	—	A36	1/2	10'-0"

EL END	TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WT.	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER (2 REQ'D) MK V2	TYPE STEEL	DIA	LENGTH	MK V4	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
CORE END	C32T18-L-58'0	9A	A242	2"x1 1/2"x 25"	10"		8	A36	09	2'-3 3/4"	—	—	—	—	436	1/4	4'-3 7/8"	—	—	—	—	DS 3	A242	7/8	2'-6 3/4"	—	—	—	—

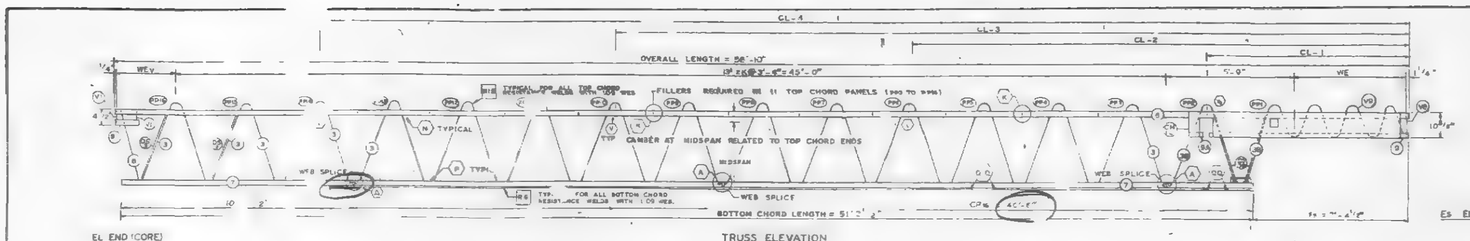
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-0 1/4"	36'-2 1/2"	49'-6 1/8"	7'-4 1/2"

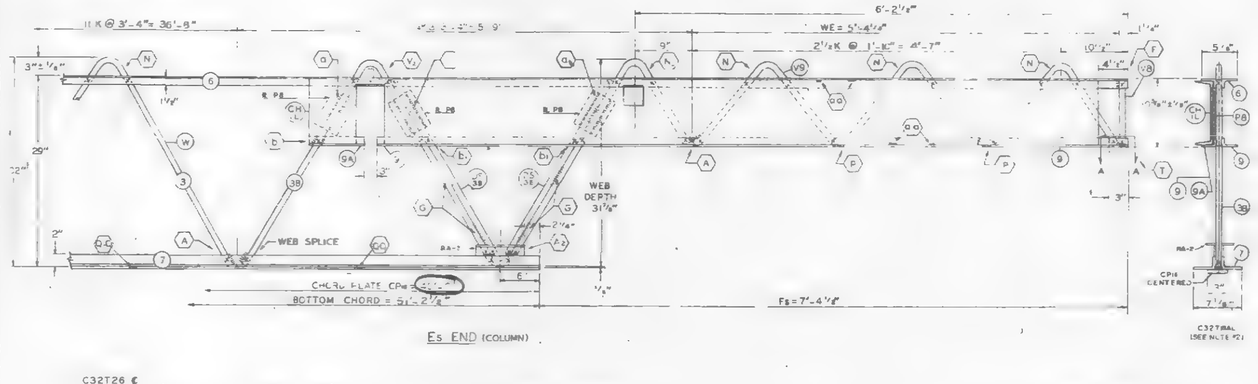
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

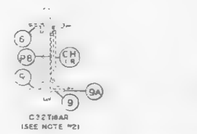
FLOOR TRUSS C32T18-L (2) (SEE NOTE 2) @ 58'-10"
WORLD TRADE CENTER TOWERS A & B

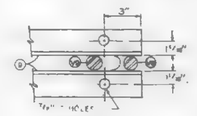
DESIGNED BY LACLEDE STEEL COMPANY
ALTON, ILLINOIS
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE 11/18/68
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
DETAILED BY A. CARL WEBER
DESIGN DRAWING NO 7-AB-7
DRAWN BY GJC DATE OCT 8, 1968
CHECKED BY T.M.CHURA DATE OCT 10, 1968
FABRICATION CONT NO WTC 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO ST 218 L (2)



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 11/16"	± 7/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-9"	± 1/4"
OVERALL LENGTH	58'-10"	± 3 8"
WEB DEPTH	31 7/8"	± 1/4



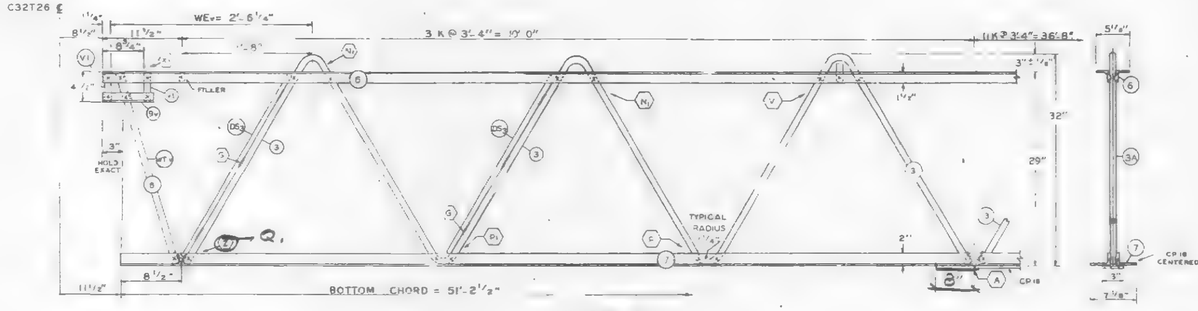




ALL PANEL POINTS RESISTANCE WELDED LA
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WE. SPLICES UNLESS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH REQUIRED IN THE
QUALITY CONTROL PROGRAM.
ALL WELD DETAILS SHOWN ON SHEETS ST290,ST291
ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST402
CHORD PLATE DETAILS SHOWN ON SHEET ST283
SEE SHEET ST295 FOR V1 DETAIL

NOTE 2

DETAILS & ELEVATIONS SHOWN FOR C32T18AL TRUSSES ARE APPLICABLE TO C32T18AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



NO	DATE	REVISION	BY

REF. DRWG

7 ABI-17	8-15-68
7 ABI-34	8-15-68
7 ABI-53A,55	7-22-68
7 ABI-2	7-1-68
7 ABI-24	8-15-68
7-AB4-17,6,7,8	8-15-68
64-164	5-1-69
7 AB4-13	8-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO.	DIA.	"M" C'SUNK HOLES	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO.	DIA.	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS	SIZE	LENGTH	REINFORCING ANGLES (REQD) MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T18AL-5810	6	A242	2"x1 1/2"x 31	58'-10"	7	A36	3"x 2"x .33"	51 2/2	38	A242	1/4	LCR	7	2	.109		CP16	A36	3"x 25	40'-6"	4	.109	3"	PB	A36	3	14"x38	51 2"	RA-2	A36	4"x 2"x 33"	7 2	

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (C'SUNK)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER (2 REQ'D) MK. V3 MK	TYPE STEEL	DIA	LENGTH	MK. V3 MK	TYPE STEEL	DIA	LENGTH	MK. V10 MK	TYPE STEEL	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T18AL-5810	6	A242	2"x1 1/2"x 2"x 29"	1	19-5"																								
	9A	A242	2"x1 1/2"x 2"x 29"	1	8'-1 7/8"	5'-4 1/8"	PS	A242	1 1/4	2-6 3/4"	—	—	—	—	A242	1 1/4	10'-1 1/2"	A242	1 1/4	8'-3 7/8"	—	—	—	—	C4L	A36	C4L 33.9	10'-3.0"	10'-0"

TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER (2 REQ'D) MK. V1 MK	TYPE STEEL	DIA	LENGTH	MK. V2 MK	TYPE STEEL	DIA	LENGTH	MK. V4 MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (2 REQ'D) MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T18AL-5810	9A	A242	2"x1 1/2"x 25"	10"	2'-8 1/4"	B	A36	.109	2 5 3/4	—	—	—	—	A36	.109	4 3/8"	—	—	—	—	—	—	—	—	D3	A242	7/8	2'-6 7/8"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

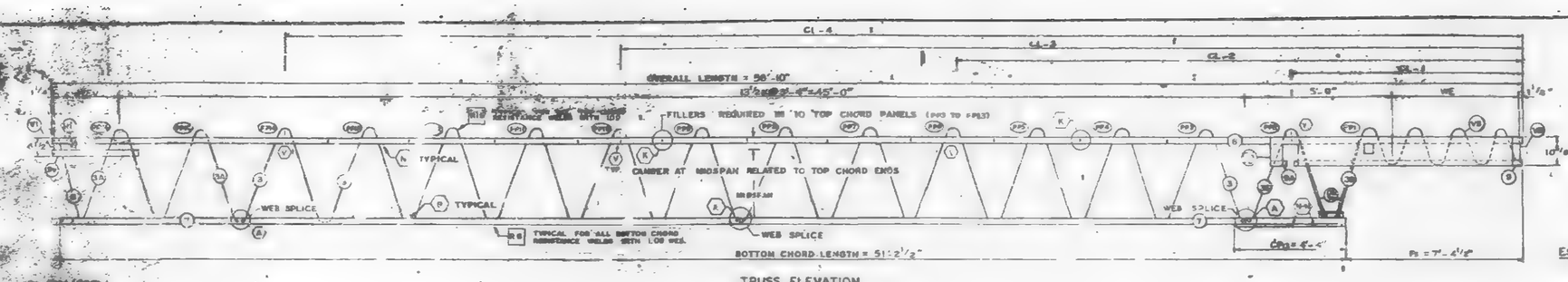
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/4"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

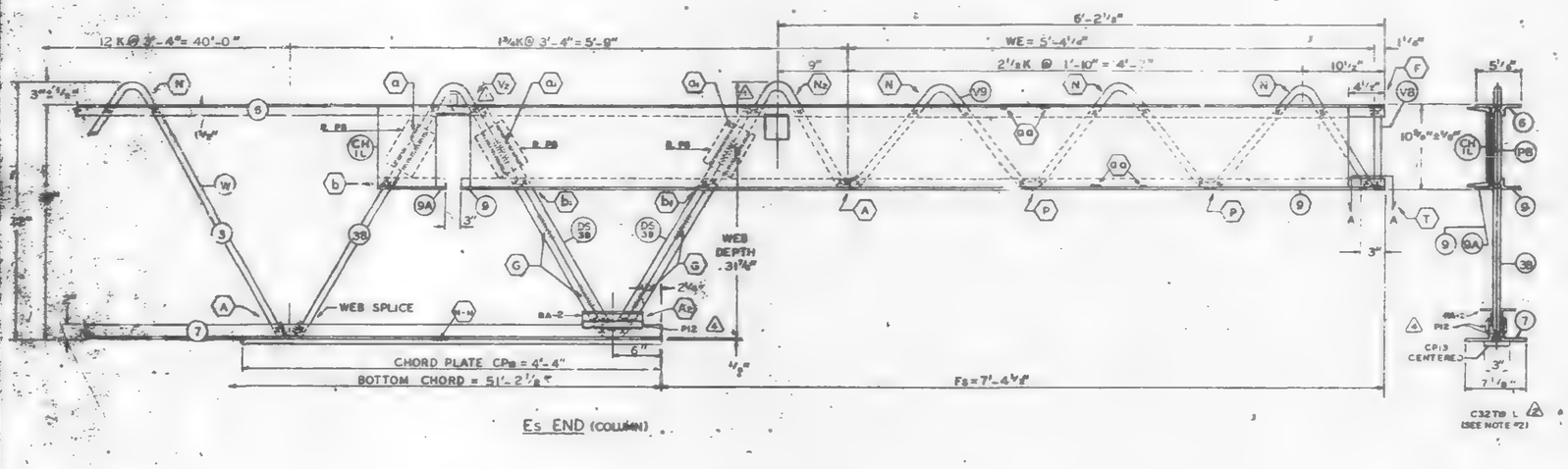
FLOOR TRUSS C32T18AL (SEE NOTE # 1 & 58'-10"

WORLD TRADE CENTER TOWERS A & B

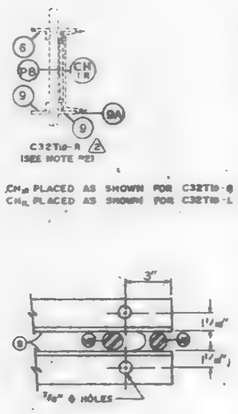
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. ABI
APPROVED FOR FABRICATION BY FOR PORT A
DATE
DRAWN BY gdc
DATE OCT 9 68
APPROVED FOR FABRICATION BY: FOR FABRICATOR
DATE
CHECKED BY
DATE OCT 10 68
FABRICATOR'S DRAWING NO.
DETAILED BY A CARL WEBER
DATE 22
ST 18AL



TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

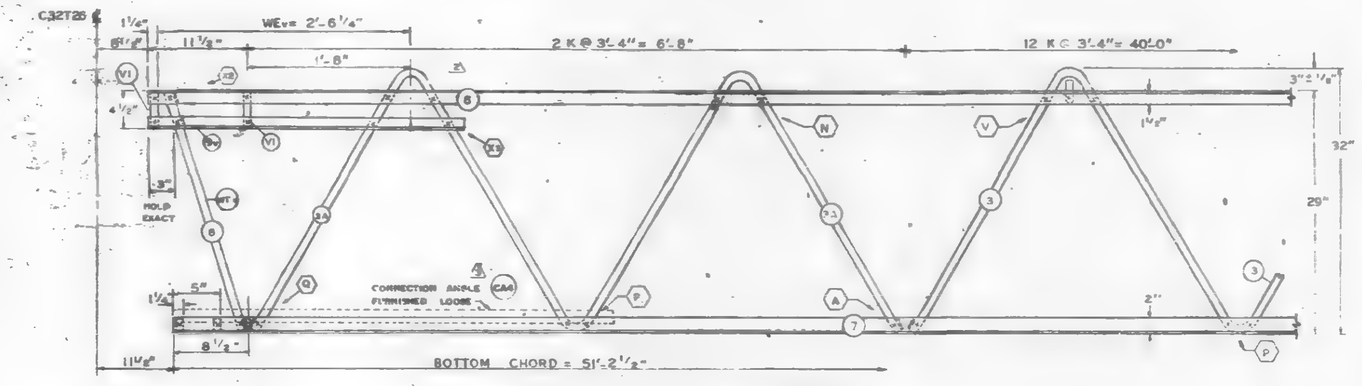
ALL PANEL POINTS RESISTANCE WELDED (A) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. LETTERS IN HEXAGON INDICATE WELD DETAILS. LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH DESIGNATION PER QUALITY CONTROL PROGRAM, Inc. ALL WELD DETAILS SHOWN ON SHEET ST292 ST292 & ST293. ALL CHANNEL DETAILS SHOWN ON SHEET ST294. CHORD PLATE DETAILS SHOWN ON SHEET ST295. SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19-R TRUSSES ARE APPLICABLE TO C32T19-L TRUSSES WITH CHANNEL CH8 AND BEARING ANGLE EA PLACED ON OPP. HAND AS SHOWN.

CAMBER AT MIDSPAN		2 5/8
DESIGN DEPTH	29"	4 1/16"
PANEL K	3'-4"	3'-1 1/4"
OVERALL LENGTH	58'-10"	58'-10"
WEB DEPTH	31 7/8"	31 1/8"

4	12-20-68	AS NOTED
3	12-3-68	AS NOTED
2	11-7-68	AS NOTED
1	10-31-68	AS NOTED
NO	DATE	REVISION



EL END (CORE)

REF. DRWG.

7-AB3-18	10-4-68
7-AB-34	11-25-68
7-AB1-58	7-22-68
7-AB3-11	1-3-68
7-AB1-24	8-19-68
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB4-11	7-22-68
7-AB1-58	10-18-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	FILLER DIA.	"M" C/C HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO.	DIA.	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLE MK.	TYPE STEEL	ANGLE SIZE	2 REQ'D LENGTH	SPECIAL PLATES MK.	TYPE STEEL	SIZE	2 REQ'D LENGTH
C32T19-L-3810	6	A242	2"x1 1/2"x.31	58'-10"	7	A36	3" x 2" x .33"	51'-2 1/2"	9	A36	1.08	74'-9"	12 K @ 3'-4" = 40'-0"	12	1.09	—	—	—	—	—	4	1.09	3"	P8	A36	3	4"x.38	5'-1 1/2"	R2	A36	3"x2"x.31"	1'-2"	P12	A36	1"x.38"	7'-1 1/8"
									9A	A242	1.14	12'-5 1/2"	2 @ 3'-4" = 6'-8"																							
									38	A242	1.14	10'-7 3/8"	3 @ 3'-4" = 9'-8"																							

Es	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V6 TYPE STEEL	DIA.	LENGTH	MK. V8 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T19-L-3810	6	A242	2"x1 1/2"x.31	2	5'-5"	5'-4 1/8"	5	A242	1.14	2'-6 3/16"	3	A36	3"x.25"	4'-4"	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	CH8	A36	10 - 30	10'-0"
																							A36	10 - 40	10'-0"

Es	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Td" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "Sd" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER (2 REQ'D) MK. V6 TYPE STEEL	DIA.	LENGTH	MK. V8	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	CONNECTION ANGLE (FURNISH LOOSE) NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	C32T19-L-3810	9	A242	2"x1 1/2"x .31	3'-3"	2'-6 1/4"	8	A242	1.14	2'-5 3/16"	—	—	—	—	A242	1.14	4 3/8"	—	—	—	—	—	—	—	—	—	2	CA4	A242	2"x1 1/2"x.37	4'-4"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/4"	36'-2 1/8"	49'-6 1/8"	7'-4 1/8"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19-L (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

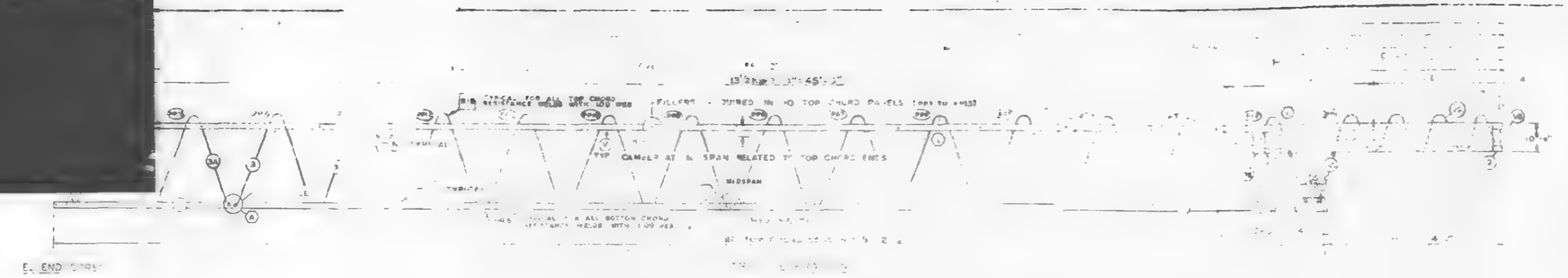
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A. BY	DATE	1/3/69
APPROVED FOR FABRICATION BY	DATE	
DETAILED BY: A. CARL WEBER		

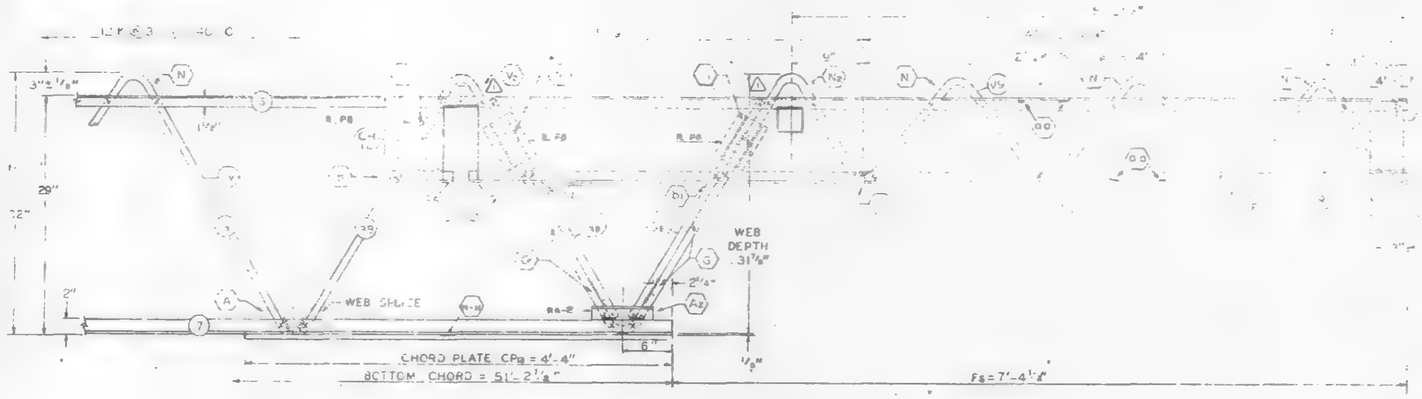
DESIGN DRAWING NO. 7-AB1-18
DRAWN BY: RDC DATE OCT. 8, 1968
CHECKED BY: J.M.CHAMP DATE OCT. 10, 1968
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST 291

[redacted]



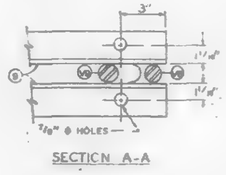
FABRICATION REQUIREME

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1' 15/8"	± 3/8"
[illegible]	29"	± 1/4"
PANEL PT	5'-4"	± 4"
E-A LENGTH	58'-10"	3/8"
	8'-0"	± 1/4"

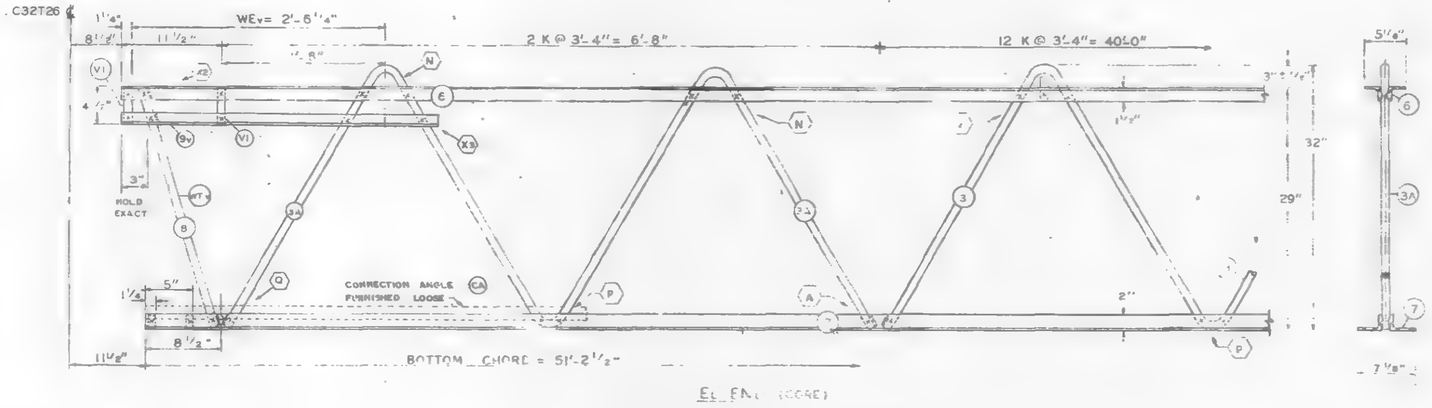


WELDED (K I
DETAILS
WEB SPLICES. (Within)
INDICATE WELD DETAIL, ie., (A)
WELDS IN SQUARES INDICATE
STRENGTH IDENTIFIED IN THE
PROGRAM, ie., (B)
SHOWN ON SHEETS ST290, ST291,
ST 292 & ST 293.
CHANNEL DETAILS SHOWN ON SHEET ST 407.
CAP PLATE DETAILS SHOWN ON SHEET ST 283
SEE SHEET ST 295 FOR VI DETAIL

WELDED SPLICE SHOWN FOR C32T19AL
CHORDS ARE ALSO USED ON C32T19AR (MUSSES
WITH CHANNEL CAP AND BEARING ANGLE 9A
PLACED ON OPP HAND AT SHOWN.



SECTION A-A



NO	DATE	REVISION	BY
1	10-31-68	AS NOTED	LWH

REF. DRWG.

7-AB1-18	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 56	7-22-68
7-AB3-2	1-3-68
7-AB4-24	8-15-68
7-AB4-17 & 17.2	8-15-68
9A-124	8-1-68
7-AB4-11	7-22-68

FAB
LACLEDE ELECTRIC COAT

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				WEB MK	WEB SIZE	WEB & LENGTH	WEB NO OF ∢	FILLER PL HOLES		SPLICE PLATES				STIFFENING ANGLES (2 REQ'D)			TRU DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH					NO	DIA	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T19AL-58'10"	6	A242	2"x2"x.33"	58'-10"	7	A36	3"x2"x.33"	58'-2¼"	3A	A242	4'-9"	12 K @ 3'-4" = 40'-0"	2	1"	42A39	A242	3"x2"x.33"	7'-1/8"	RA2	A36	3"x2"x.33"	7'-1/8"	
									3B	A242	4'-5"	2 K @ 3'-4" = 6'-8"										
									3R	A242	1'-4"	10-7 3/8" & 3 4K @ 3'-4" = 5'-3"										

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL STRUT				CHORD PLATE			END STIFFENER						CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH REQ'D	MK	TYPE STEEL	SIZE	LENGTH	MK V8 TYPE STEEL	DIA	LENGTH	MK V9 TYPE STEEL	DIA	LENGTH	MK V11 TYPE STEEL	DIA	LENGTH	
ES END	C32T19AL-58'10"	8	A242	2"x1"x.25"	3'-5"	5'-4 9/16"	10	A242	1¼	6'-3 1/8"	CP1B	A36	1"x25"	4'-4"	A242	1¼	10'-2"	A242	1¼	8'-3 1/8"				UP A36 10"x30" LOW A36 10"x30"	10'-0"
		9A	A242	2"x1"x.25"	3'-5"																			

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL STRUT				VERTICAL STRUT			END STIFFENER (2 REQ'D)						DOUBLE STRUT				DOUBLE STRUT				FURNISH LOOSE	CONNECTION ANGLE			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V	TYPE STEEL	DIA	LENGTH	MK V2	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	C32T19AL-58'10"	9v	A242	2"x1"x.25"	3'-5"	2'-6 1/4"	8	A242	1¼	6'-3 1/8"	—	—	—	—	A242	1¼	4'-9"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1½"x.37	4'-4"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS.				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6"	22'-10½"	36'-2½"	49'-6½"	7'-4¼"

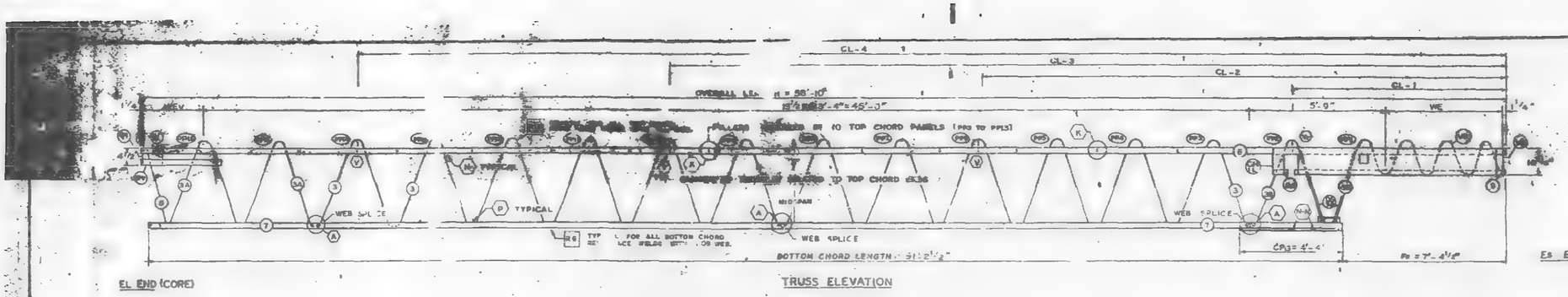
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
OF THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19AL (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT: ALTON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-18	PLATE
APPROVED FOR FABRICATION BY:	DRAWN BY gdc DATE OCT. 9, 1968	
APPROVED FOR FABRICATION BY: DATE	CHECKED BY TM CHURA DATE OCT. 10, 1968	NO CHANGE OF PROD REV.
DETAILED BY: R. CARL WEBER	FABRICATION CONT NO 221	SHEET NO ST 21948

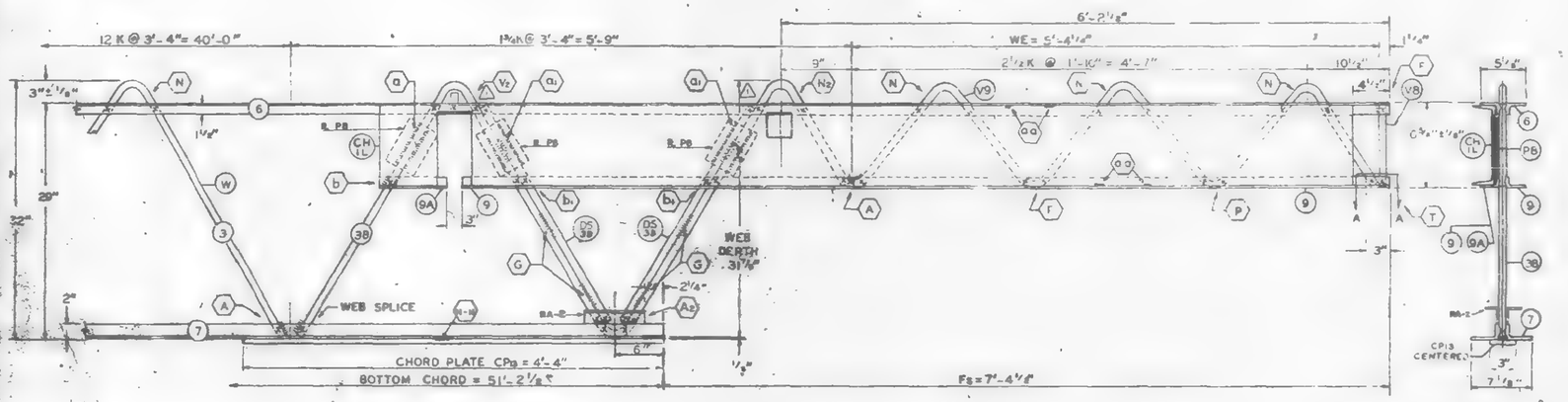
FABRICATION REQUIREMENT		
	DESIGN	CAMBER TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/16"
DESIGN DEPTH	32"	± 1/8"
PANEL K	5'-4"	± 1/16"
OVERALL LENGTH	58'-10"	± 1/8"
WEB DEPTH	31 1/8" & 31 1/4"	



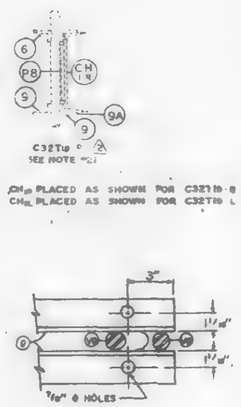
TRUSS ELEVATION

EL END (CORE)

Es END (COLUMN)



Es END (COLUMN)



SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MAN).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 & ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19-L (2) TRUSSES ARE APPLICABLE TO C32T19-R TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION
3	12-3-68	AS NOTED
2	11-7-68	AS NOTED
1	10-31-68	AS NOTED

REF. DRWG.

7-AB1-18	10-6-68
7-AB1-34	11-25-68
7-AB1-58	7-25-68
7-AB2-2	1-3-68
7-AB3-26	8-15-68
7-AB4-17 & 17.2	10-6-68
SA-124	10-11-68
7-AB4-11	7-25-68
7-AB1-38	10-10-68

LACLEDE STEEL CO

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19-L (2) SEE NOTE 2 x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-18	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE 12/9/68	DRAWN BY DATE OCT 9, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT 10, 1968
DETAILED BY A. CARL WEBER	FABRICATION CONT NO WTC 221	IN CHARGE OF PROD. DEV.
		SHEET ST 289

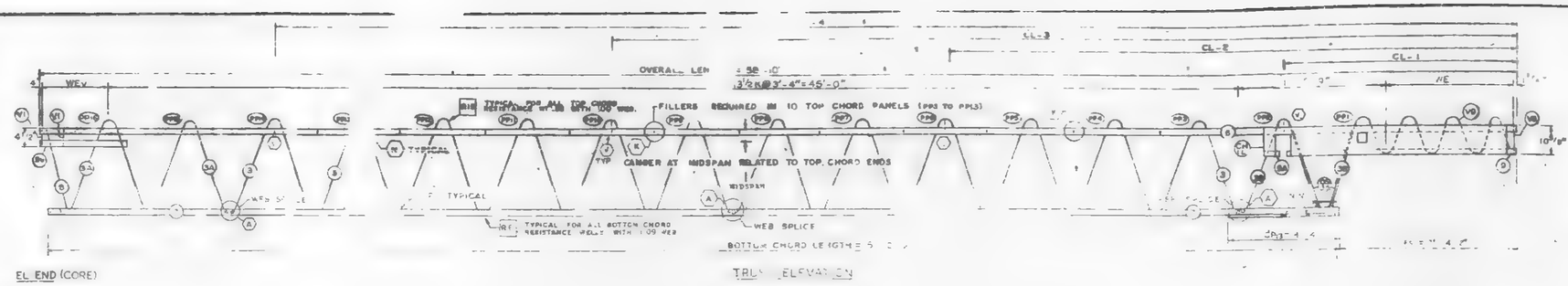
TRUSS DESIGNATION	TOP CHORD TWO ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W": MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER: REQ	DIA	"M" C/C HOLES	CHORD PLATE: MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS: NO	DIA	LENGTH	CHANNEL PLATES: MK	TYPE STEEL	PCS	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D): MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T19-L-5810	6	A242	2"x1 1/2"x .31	58'-10"	7	A36	3" x 2" x .33"	51 2 1/2	3	A36	1.08	74'-9"	12 K @ 3'-4" = 40'-0"	2	10						4	10	3	5	A36	3	4"x.39	5'-4 1/2"	RA2	A36	3" x 2" x .33"	7 1/2"	
									38	A242	1.14	10' 7 3/8"	8 K @ 5'-4" = 42'-8"																			

Es END	TRUSS DESIGNATION	BEARING ANGLES: MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT: MK	TYPE STEEL	DIA	LENGTH (12 REQ'D)	CHORD PLATE: MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER: MK. V8: TYPE STEEL	D.A	LENGTH	MK. V9: TYPE STEEL	DIA	LENGTH	MK. V10: TYPE STEEL	DIA	LENGTH	CHANNEL: MK	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T19-L-5810	6	A242	2"x1 1/2"x .25"	2	5'-4"	5'-4 1/4" OS	A242	1.14	2'-6 3/4"	13	A36	9"x.25"	4'-4"	A242	1.14	10'-1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH1	A36	C10 x 30	10'-0"
		9A	A242	2"x1 1/2"x .25"	2	5'-4"																		CH2	A36	C10 x 30	10'-0"

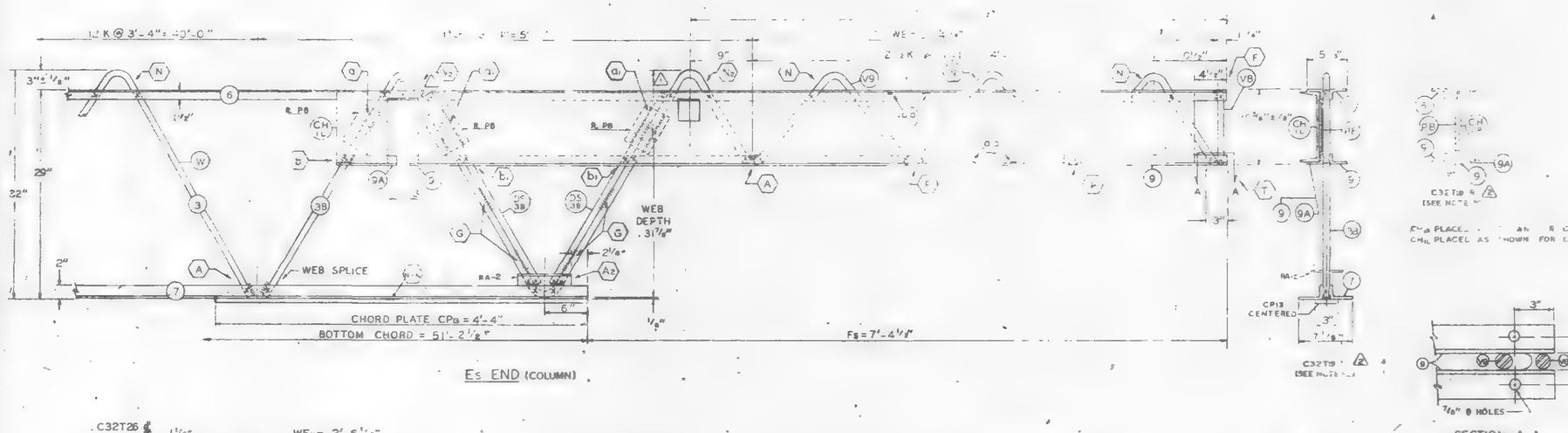
CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/8"	49'-6 1/8"	7'-4 1/4"

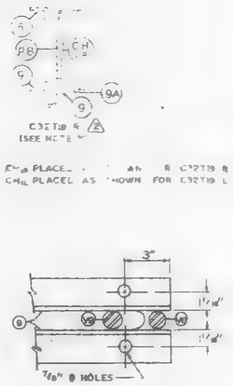
CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	WE v	DIAGONAL "Td" STRUT: MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "St" STRUT: MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER (2 REQ'D): MK. V1: TYPE STEEL	DIA	LEN H	MK. V2: TYPE STEEL	D	LENGTH	MK. V4: TYPE STEEL	DIA	LENGTH	DOUBLE STRUT: MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT: MK	TYPE STEEL	DIA	LENGTH	(FURNISH LOOSE) CONNECTION ANGLE: NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	END	C32T19-L-5810	9v	A242	2"x1 1/2"x .31	3	2'-6 1/4"	8	A242	1.14	2'-5 3/4"	—	—	—	—	A242	1.14	4 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA4	A242	2"x1 1/2"x.37	4'-4"

James Weber Jr



FABRICATION REQUIREMENT.		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/64"
OVERALL LENGTH	58'-10"	± 0"
WEB DEPTH	31 7/16"	± 1/64"

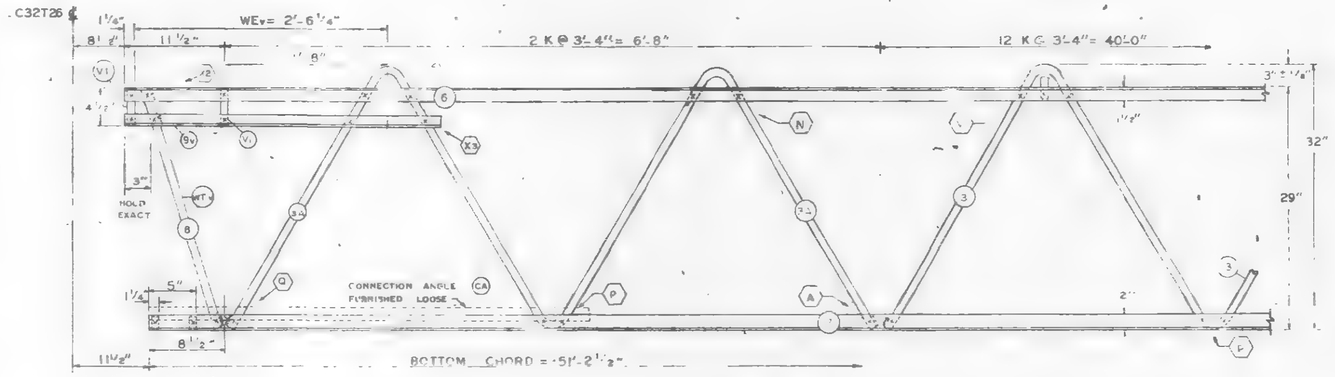




ALL PANEL POINT RESISTANCE WELDED (R.W.).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES. (Wld.).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM ie., (RB).
ARC WELD DETAILS SHOWN ON SHEETS ST290, ST291,
ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
GUSSET PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19-L (2) TRUSSES ARE APPLICABLE TO C32T19-R TRUSSES (2) WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



NO	DATE	REVISION	BY
(2)	11-7-68	AS NOTED	G.D.C.
(1)	10-31-68	AS NOTED	J.W.H.

(2) REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 172	10-4-68
SA-124	10-11-68
7-AB4-11	7-22-68
7 AB1-55	10-15-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES (2) MK	TOP CHORD TWO ANGLES (2) TYPE STEEL	TOP CHORD TWO ANGLES (2) CHORD SIZE	BOTTOM CHORD TWO ANGLES (2) LENGTH OVER	BOTTOM CHORD TWO ANGLES (2) TYPE STEEL	BOTTOM CHORD TWO ANGLES (2) CHORD SIZE	BOTTOM CHORD TWO ANGLES (2) LENGTH	MAIN WEB "W" MK	MAIN WEB "W" TYPE STEEL	MAIN WEB "W" DIA	MAIN WEB "W" LENGTH	MAIN WEB "W" NO OF K	FILLER NO	"M" HOLES G-A	CHORD PLATE MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	END STIFFENER MK	END STIFFENER TYPE STEEL	END STIFFENER LENGTH	CHANNEL PLATES MK	CHANNEL PLATES TYPE STEEL	CHANNEL PLATES PCS.	CHANNEL PLATES SIZE	CHANNEL PLATES LENGTH	REINFORCING ANGLES (2 REQ'D.) MK	REINFORCING ANGLES (2 REQ'D.) TYPE STEEL	REINFORCING ANGLES (2 REQ'D.) SIZE	REINFORCING ANGLES (2 REQ'D.) LENGTH	TRUSS DATA
(2) C32T19-L-58'0"	9	A242	2"x1 1/2"x 3/16	58'-0"	A242	3"x 2"x 3/16	57'-2 7/8"	1	A36	1/4	14'-9"	12 K @ 3'-4" = 40'-0"	12	10 9/16	—	—	—	—	—	—	—	—	—	—	—	—	RA-2	A36	3/8	2"x3"	7'-8"	
								1A	A242	1/4	12'-3"	2 K @ 3'-4" = 6'-8"																				
								3B	A242	1/4	19'-7 3/8"	3 K @ 3'-4" = 10'-0"																				

	TRUSS DESIGNATION (2)	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES PCS.	BEARING ANGLES LENGTH	WEv	DIAGONAL STRUT MK	DIAGONAL STRUT TYPE STEEL	DIAGONAL STRUT DIA.	DIAGONAL STRUT LENGTH	CHORD PLATE MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH	END STIFFENER MK V8 TYPE STEEL	END STIFFENER MK V8 DIA	END STIFFENER MK V8 LENGTH	END STIFFENER MK V9 TYPE STEEL	END STIFFENER MK V9 DIA	END STIFFENER MK V9 LENGTH	END STIFFENER MK V10 TYPE STEEL	END STIFFENER MK V10 DIA	END STIFFENER MK V10 LENGTH	CHANNEL MK	CHANNEL TYPE STEEL	CHANNEL SIZE	CHANNEL LENGTH
COLUMN END Es END	C32T19-L-58'0"	8	A242	2"x1 1/2"x 3/16	2	10'-5"	4'-4 1/8"	2	A242	1 1/4	4'-6 3/4"	CP3	A36	3/4"x 25"	4'-4"	A242	1 1/4	10 1/2"	A242	1 1/4	8-3 7/8"	—	—	—	5	A36	10" WT 30	10'-0"
		8A	A242	2"x1 1/2"x 3/16	2	10'-5"																			6	A36	10" WT 30	10'-0"

	TRUSS DESIGNATION (2)	HEARING ANGLES MK	HEARING ANGLES TYPE STEEL	HEARING ANGLES CHORD SIZE	HEARING ANGLES LENGTH	WEv	DIAGONAL STRUT MK	DIAGONAL STRUT TYPE STEEL	DIAGONAL STRUT DIA.	DIAGONAL STRUT LENGTH	VERTICAL STRUT MK	VERTICAL STRUT TYPE STEEL	VERTICAL STRUT DIA.	VERTICAL STRUT LENGTH	END STIFFENER (2 REQ'D) MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA.	DOUBLE STRUT LENGTH	(1 FURNISH LOOSE) CONNECTION ANGLE NO.	CONNECTION ANGLE MK	CONNECTION ANGLE TYPE STEEL	CONNECTION ANGLE SIZE	CONNECTION ANGLE LENGTH
CORE END Es END	C32T19-L-58'0"	9v	A242	2"x1 1/2"x 3/16	3	2'-6 7/8"	8	A242	1 1/4	2'-5 3/4"	..	—	—	—	A242	1.14	6 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1 1/2"x.37	4'-4"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/4"	36'-2 1/2"	49'-6 1/2"	7'-4 3/4"

FLOOR TRUSS DESIGN
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19-L (2) SEE NOTE 2 FOR SPAN

WORLD TRADE CENTER TOWERS A & B

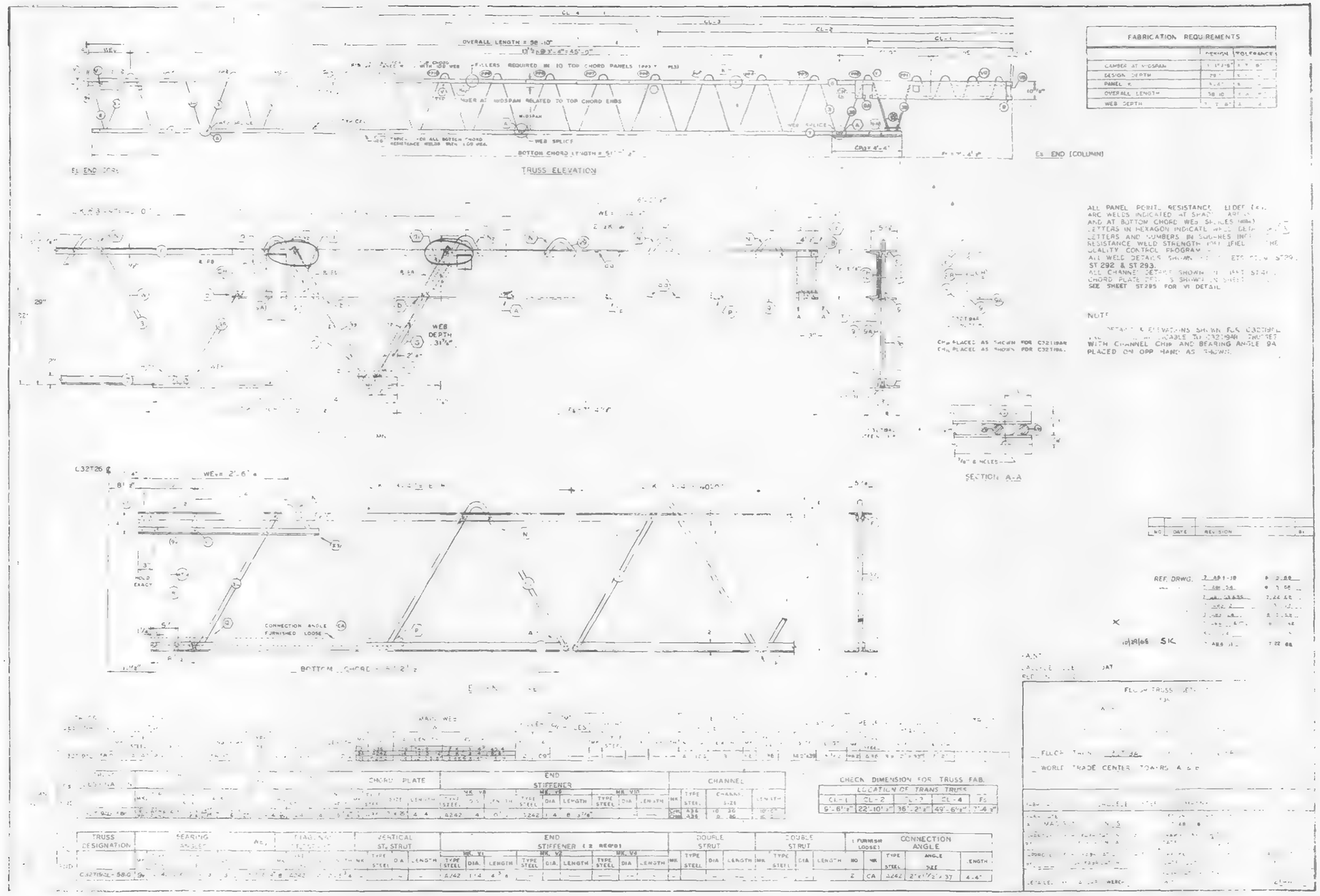
FABRICATED BY LEHIGH STEEL COMPANY

FABRICATED AT ALLIANCE, OHIO — DESIGN DRAWING NO. 7-AB 8

APPROVED FOR FABRICATION BY — FOR PONYA — DATE 11/18/68 — DRAWN BY — DATE OCT. 24, 1968 — PLATE

APPROVED FOR FABRICATOR BY — DATE — CHECKED BY T.M.CHURA DATE OCT. 10, 1968 — IN CHARGE OF PROD. DEV.

DETAILED BY A. CARL WEBER — FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. ST 219 (2)

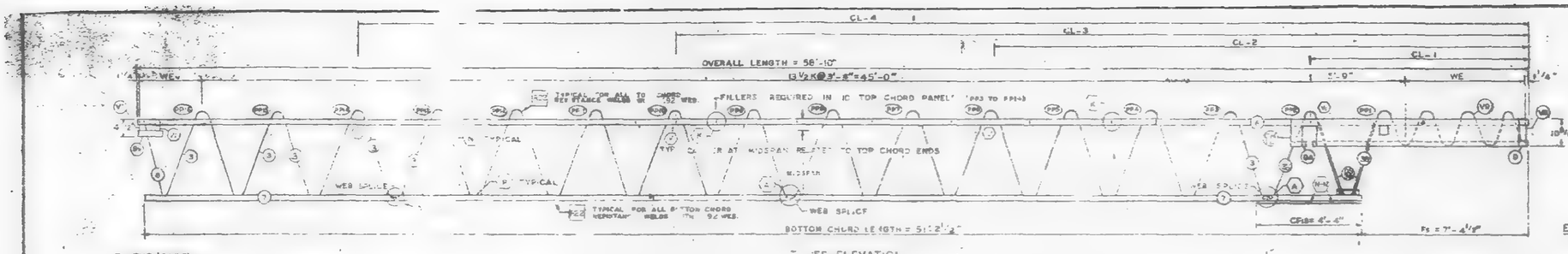


TRUSS DESIGNATION	BEARING ANGLE	END STIFFENER (2 REQD)									DOUBLE STRUT			DOUBLE STRUT			CONNECTION ANGLE (FURNISH LOOSE)				
		VERTICAL ST. STRUT																			
		MK. V1			MK. V2			MK. V3													
		TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
C32T26L-58G		L242		1'-4 3/8"															2	CA	L242	2"x1 1/2"x 37	4'-4"

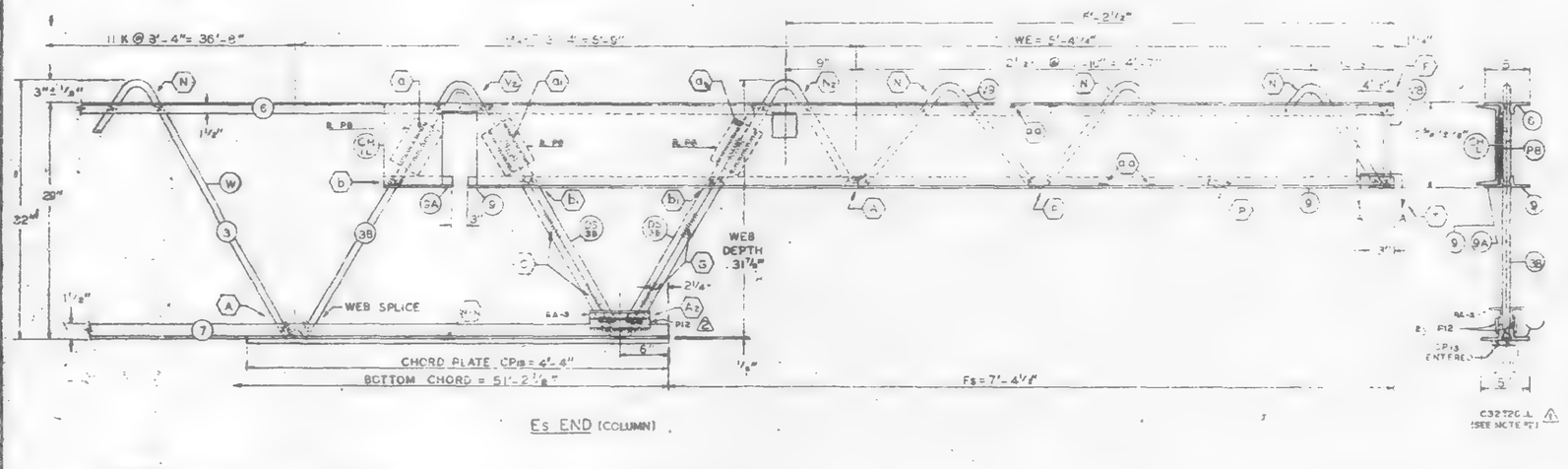
CHORD PLATE			END STIFFENER								CHANNEL		
			MK. V1			MK. V2			MK. V3				
TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
L242	4 x 2 1/2 x 4 4	4242	4	0"	3242	1 4	8 3/16"					CHA	A36	10 20	10'-0"
												CHB	A36	D 85	

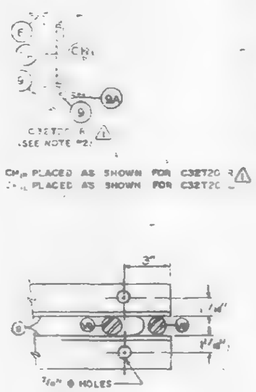
CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
5'-6 1/8"	22'-10 1/2"	36'-2 1/8"	49'-6 1/2"	7'-4 3/8"

NO	DATE	REVISION	BY



FABRICATION REQUIREMENTS		
	DIM.	TOL.
CAMBER AT MIDSPAN	1/16"	± 3/16"
DESIGN DEPTH	29"	± 1/8"
PANEL K	3'-4"	± 1/4"
OVERALL LENG	58'-	± 3/16"
WEB DEPTH	31 7/8"	± 1/16"



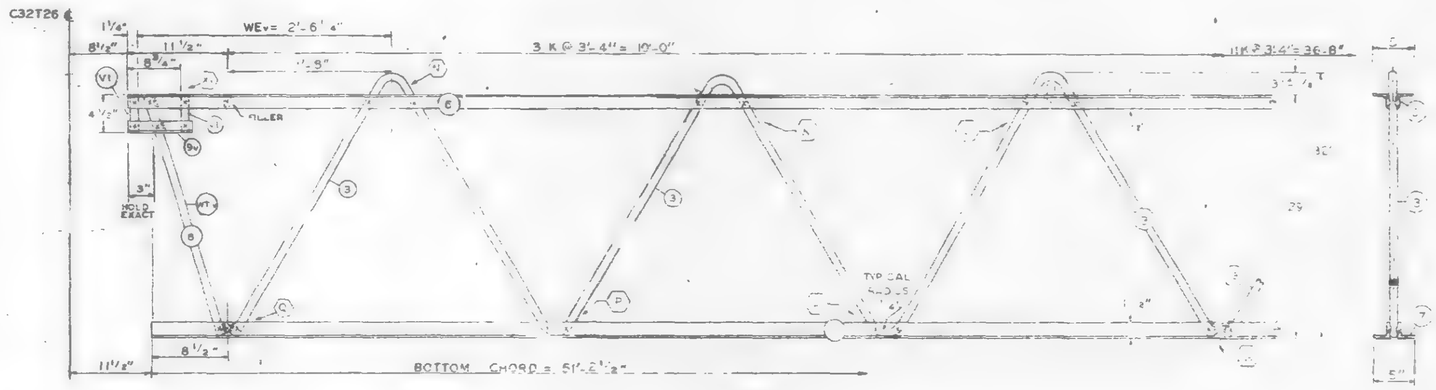


ALL PANEL POINTS RESISTANCE WELDED. (R.T.)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (ARC)
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., P9
ALL WELD DETAILS SHOWN ON SHEETS ST 290, ST 291, ST 292 AND ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 289.
SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T20 L ⚠1 TRUSSES ARE APPLICABLE TO C32T20 R TRUSSES WITH CHANNEL CH10 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

SECTION A-A



⚠	12-12-68	SPECIAL PLATE PI2	B.D.C.
⚠1	11-7-68	AS NOTED	B.D.C.
NO	DATE	REVISION	BY

⚠2 REF. DRWG.

7-AB1-19	10-4-68
7-AB1-34	11-25-68
7-AB1-53	7-28-68
7-AB3-8	1-8-69
7-AB3-24	8-15-68
7-AB3-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB1-43.1	7-28-68
7-AB1-58	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER "M" C/C HOLES		CHORD PLATE			CONNECTION PLATES			CHANNEL PLATES				REINFORCING ANGLES			SPECIAL PLATES		
⚠	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA	MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T20 L-5810	8	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1" 2"x.25"	51'-2¼"	3	A242	.92	10'-8"	2"@4 K @ 3'-4" = 48'-8"																				
									38	A242	.92	10'-7 3/8"	3 K @ 3'-4" = 10'-0"																				

END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER								CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T20 L-5810	8	A242	2"x1½"x.25"	2	8'-5"	5'-4¼"	9	A242	.92	2'-6¾"	13	A36	3"x.25"	4'-4"	A242	.92	2"	A242	.92	3'-3⅞"	—	—	—	CH10	A36	10 - 30	10'-0"
		10A	A242	2"x 3"/8"x.25"	2	8'-7½"																			CH10	A36	10 - 30	10'-0"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "Sv" STRUT				END STIFFENER (2 REQ'D)								DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T20 L-5810	9v	A242	2"x1½"x.25"	10"	2'-6 7/8"	AD42	.92	2-5¾"	—	—	—	—	A242-3	.92	4 5/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

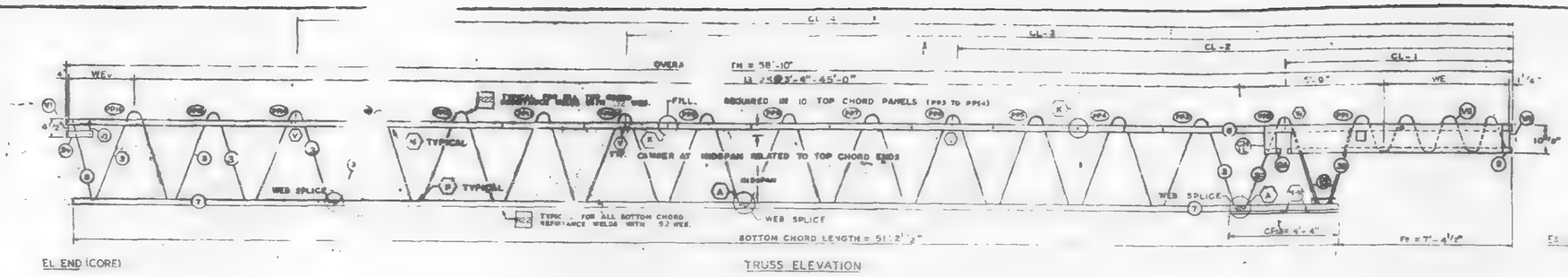
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

FLOOR TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T20-L ⚠1 (SEE NOTE 2) @ 58'-10"
WORLD TRADE CENTER TOWERS A & B

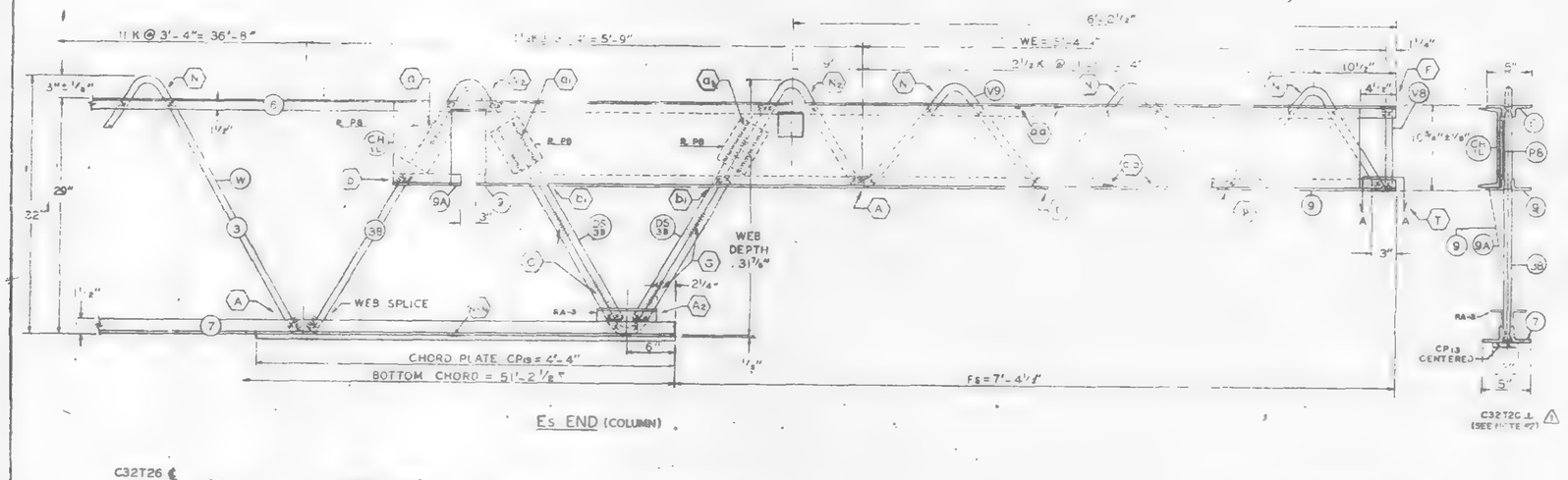
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White DATE 1/13/69
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
DETAILED BY: A. CARL WEBER

DESIGN DRAWING NO. 7-AB1-14
DRAWN BY: GDC DATE: OCT. 5, 1968
CHECKED BY: T.M.CHUNG DATE OCT. 10, 1968
FABRICATION CONT. NO. W.T.C. 221
PLATE
SHEET NO. ST 220



TRUSS ELEVATION

FABRICATION REQUIRE		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 11/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	5'-0"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



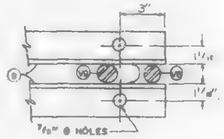
Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED. (RW).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (AWS).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., (R6).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 DETAIL.

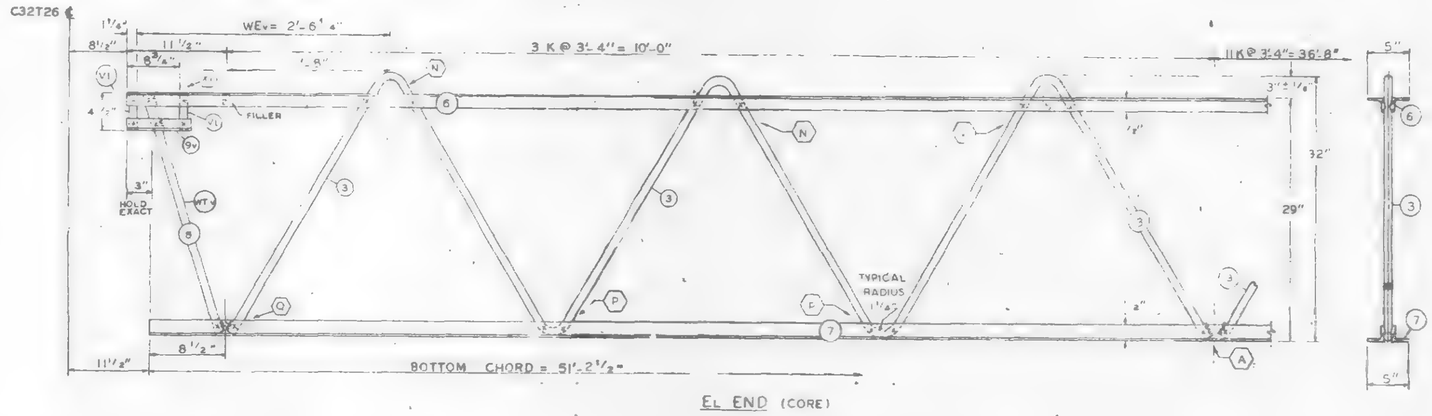
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T2C L ⚠ TRUSSES ARE APPLICABLE TO C32T2C R TRUSSES WITH CHANNEL CH8R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

CH8L PLACED AS SHOWN FOR C32T2C R ⚠
CH8L PLACED AS SHOWN FOR C32T2C L ⚠



SECTION A-A



EL END (CORE)

⚠	11-7-68	AS NOTED	G.D.C.
NO	DATE	REVISION	BY

⚠ REF. DRWG

7-A8 L-19	10-4-68
7-A9 L-24	10-4-68
7-A8 L-53	7-22-68
7-A83-2	1-3-68
7-A83-24	8-15-68
7-A84-17 & 172	10-4-68
84-124	10-18-68
7-A8 L-13.1	7-22-68
7-A8 L-53	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" C/C HOLES	CHORD PLATE			COLLECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
⚠	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH		
C32T2C L-58'0	6	A242	2"x1 1/2"x .25"	58'-10"	7	A242	2"x1 1/2"x .25"	51'-2 1/4"	3B	A242	.92"	10'-2 1/2"	14 K @ 3'-4" = 36'-8"	11	.92"	—	—	—	—	—	—	4	.92"	3	M36	3	4"x.39"	5'-1.2"	RA3	A242	2"x1 1/2"x.25"	7 1/2"		

EL END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT			CHORD PLATE			END STIFFENER									CHANNEL		
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T2C L-58'0	8	A242	2"x1 1/2"x .25"	2	9'-5 1/2"	5'-4 1/2"	DS	A242	.92"	2'-6 3/4"	C9	A36	3"x.25"	4'-4"	A242	.92"	10 1/2"	A242	.92"	8'-3 7/8"	—	—	—	C9	A36	C 30	10'-0"
		9A	A242	3"x3"x5/16																					C9A	A36	C 30	10'-0"

EL END	TRUSS DESIGNATION	BEARING ANGLES					WE	DIAGONAL "D" STRUT				VERTICAL "V" STRUT &				END STIFFENER (2 REQ'D)										DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE		LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2	MK. V3 TYPE STEEL	MK. V3 DIA.	MK. V3 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T2C L-58'0	9v	A242	2"x1 1/2"x .25"		10"	2'-6 1/4"	8	A242	.92"	2'-5 3/4"	—	—	—	—	A242	.92"	4 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

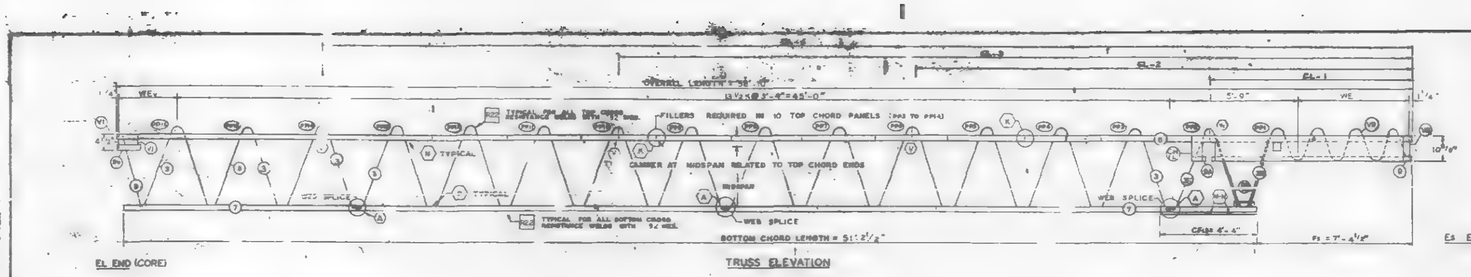
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/8"	7'-4 1/4"

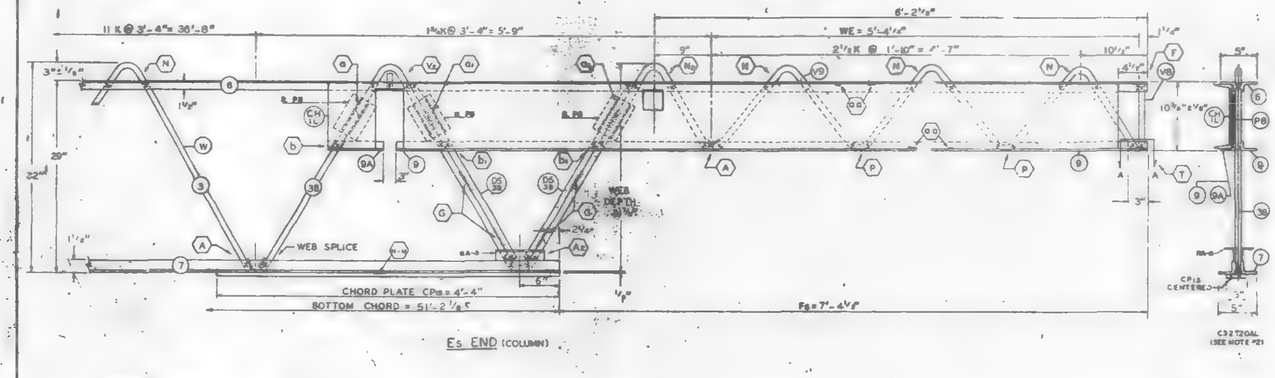
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

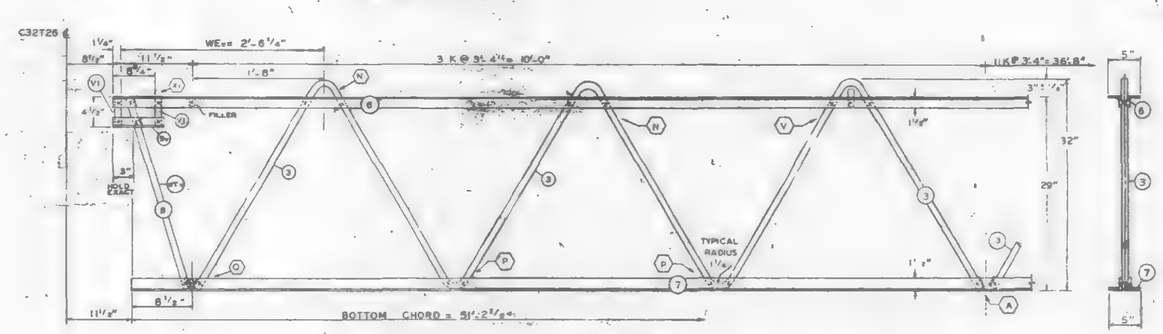
FLOOR TRUSS C32T2C-L ⚠ (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY P.O.N.Y.A. DATE 11/11/68
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A. CARL WEBER
DESIGN DRAWING NO. 7-A81-19
DRAWN BY gdc DATE OCT. 3, 1968
CHECKED BY T.M.CHURA DATE OCT. 10, 1968
W.T.C. 221
PLATE
IN CHARGE OF PROD. DEV.
FABRICATION CONT. NO.
SHEET NO. ST 2 ⚠



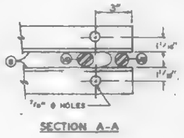
TRUSS ELEVATION





C32T20AR (SEE NOTE #2)

CH1s PLACED AS SHOWN FOR C32T20AR
CH1s PLACED AS SHOWN FOR C32T20AL



SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., 92.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T20AL TRUSSES ARE APPLICABLE TO C32T20AR TRUSSES WITH CHANNEL CH1s AND BEARING ANGLE BA PLACED ON OPP. HAND AS SHOWN.

FABRICATION REQUIREMENTS		
	DETAIL	TOLERANCE
CAMBER AT MIDSPAN	1 11/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL E	5'-4"	± 1/16"
OVERALL LENGTH	58'-0"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

NO	DATE	REVISION	BY

REF DRWG.

7-AB1-19	8-15-68
7-AB1-34	8-15-68
7-AB1-55 & 56	3-28-68
7-AB2-2	1-3-68
7-AB3-24	8-15-68
7-AB6-17 & 17.2	8-15-68
BA-24	8-15-68
7-AB1-13.1	7-28-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" CHOLES	CHORD PLATE				CONNECTION FILLERS				CHANNEL PLATES				REINFORCING ANGLES (R REQ'D)				TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO OF R	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	MK	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T20AL-3810	6	A242	8"x11/2"x.25"	58'-10"	7	A242	2"x11/2"x.25"	51'-2½"	3	A242	.92	2'-8 1/2"	14 R W 3, 4 2"x4"x.46"	11	.92	—	—	—	—	—	4	.92	3"	PB	A36	3	4"x3/8"	5'-1/2"	BA(PB)	A242	2"x1/2"x 25	7'-1/8"	
C32T20AL-3810	6	A242	8"x11/2"x.25"	58'-10"	7	A242	2"x11/2"x.25"	51'-2½"	3B	A242	.92	2'-8 1/2"	14 R W 3, 4 2"x4"x.46"	11	.92	—	—	—	—	—	4	.92	3"	PB	A36	3	4"x3/8"	5'-1/2"	BA(PB)	A242	2"x1/2"x 25	7'-1/8"	

	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE			END STIFFENER								CHANNEL		
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA.	MK. V8 LENGTH	MK. V9 TYPE STEEL	MK. V9 DIA.	MK. V9 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA.	MK. V10 LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T20AL-3810	8	A242	8"x11/2"x.25"	2	1'-8"		9A	A242	.92	2'-6 3/8"	6	A36	3"x.25"	4'-4"	A242	.92	10 1/2"	A242	.92	8'-3 7/8"	—	—	—	9A	A36	10 x 20	10'-6"
		9	A242	12"x11/2"x.25"	2	1'-8"																			9B	A36	10 x 20	10'-6"

	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Dv" STRUT				VERTICAL "St" STRUT A				END STIFFENER (2 REQ'D)								DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T20AL-3810	6	A242	2"x11/2"x .25"	1'-8"	2'-6 1/4"	8	A242	.92	2'-5 3/4"	—	—	—	—	A242	.92	4 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

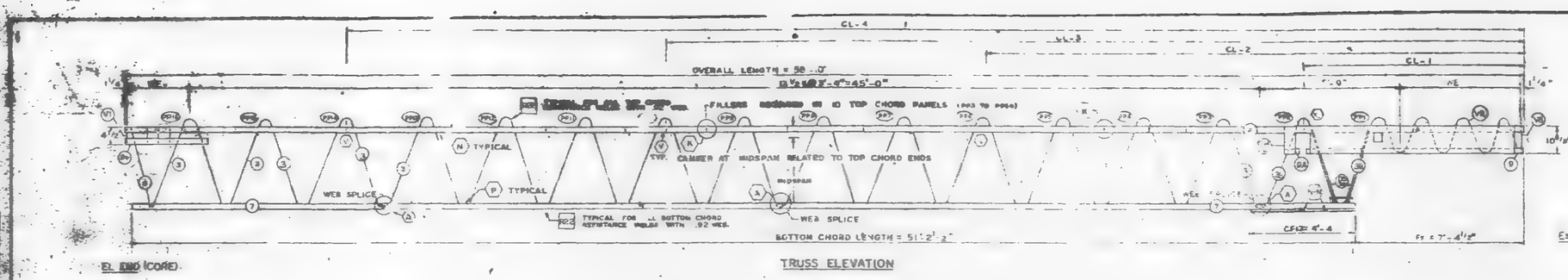
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-8 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/4"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

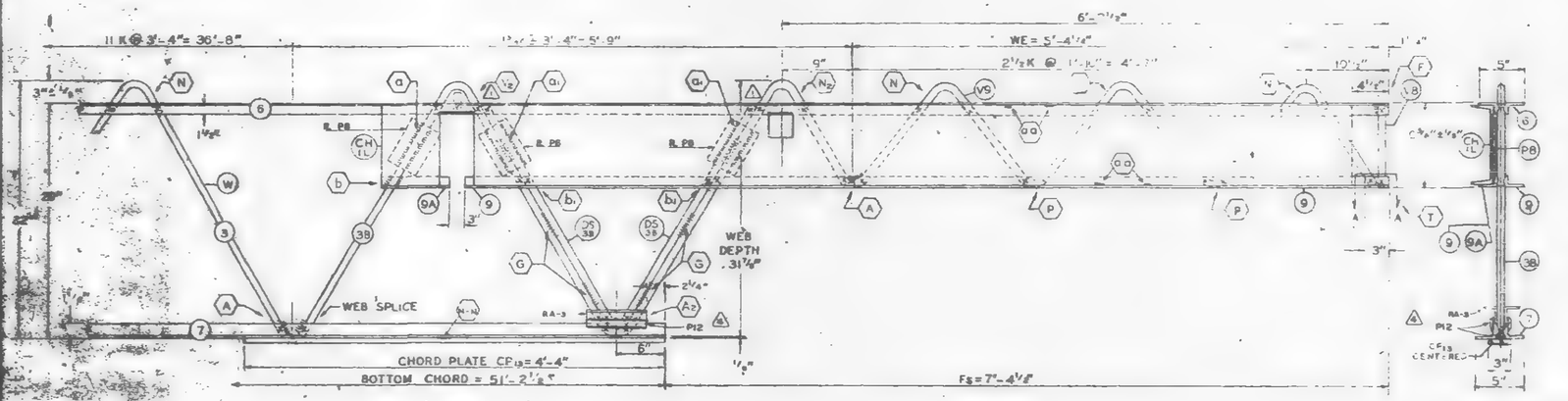
FLOOR TRUSS C32T20AL (SEE NOTE 2) x 58'-10"

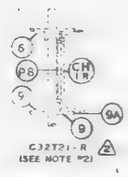
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 10/24/68
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
DETAILED BY A. CARL WEBER
DESIGN DRAWING NO. 7-AB1-FB
DRAWN BY: DATE OCT. 4, 1968
CHECKED BY: T.M. CHURA DATE OCT. 10, 1968
FABRICATION CONT. NO. T.C. 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO ST 220AL

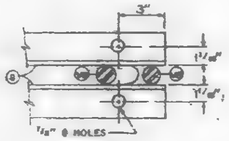


TRUSS ELEVATION





CH_R PLACED AS SHOWN FOR C32T21-R
CH_L PLACED AS SHOWN FOR C32T21-L

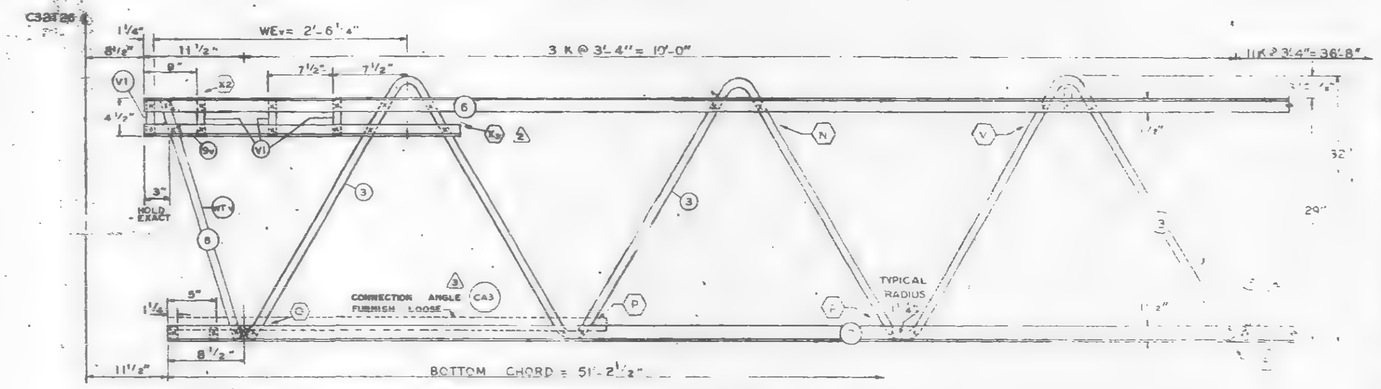


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.
ALL WELD DETAILS SHOWN ON SHEET ST 292 AND ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 294
CHORD PLATE DETAILS SHOWN ON SHEET ST 295
SEE SHEET ST 295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21-L & R TRUSSES ARE APPLICABLE TO C32T21 R TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)

4	12-28-88	AS NOTED	
3	12-3-88	AS NOTED	
2	11-7-88	AS NOTED	
1	10-31-88	AS NOTED	
NO	DATE	REVISIONS	

4 REF. DRWG.

7-A83-20	10-4-88
7-A81-34	11-23-88
7-A81-58	7-25-88
7-A83-2	1-8-89
7-A86-24	8-19-88
7-A84-17 & 17.2	10-4-88
SA-124	10-11-88
7-A84-11.8	7-25-88

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	WT OF K	FILLER "V" OR "VS" NO.	DIA	MK.	TYPE STEEL	SIZE	LENGTH
C32T21-L-5810	6	A242	2"x1 1/2"x .25"	58'-10"	7	A242	2"x1 1/2"x .25"	51'-2 1/2"	36	A242	.92	31 7/8"	14 K = 2'-4"=46'-8"	12	5/8				

	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH
COLUMN END	C32T21-L-5810	8	A242	2"x1 1/2"x.31	4	3'-5"	5'-4 1/16"	9B	A242	.92	2'-6 3/4"	13	A36	9"x.25"	4'-4"	A242	.92	10'-1 2"	A242	.92	8'-3 7/8"

	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE_V	DIAGONAL "T_D" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER (4 REQ'D) MK. V6 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	CONNECTION ANGLE QTY	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	C32T21-L-5810	9	A242	2"x1 1/2"x.31	3' 2"	2'-6 1/4"	8	A242	.92	2'-5 3/4"	—	—	—	—	A242	.92	4'-5 8"	—	—	—	—	—	—	—	—	—	—	2	CA3	A242	2"x1 1/2"x.31	4'-4"

LOCATION OF FRAME TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
3'-6 1/16"	22'-10 1/2"	36'-2 1/8"	49'-6 1/16"	7'-4 1/8"

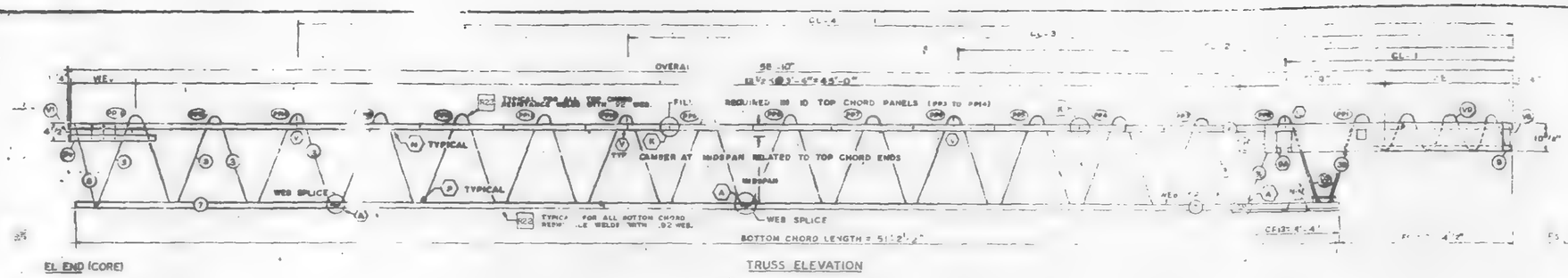
CHECK DIMENSION FOR TRUSS FAB.

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

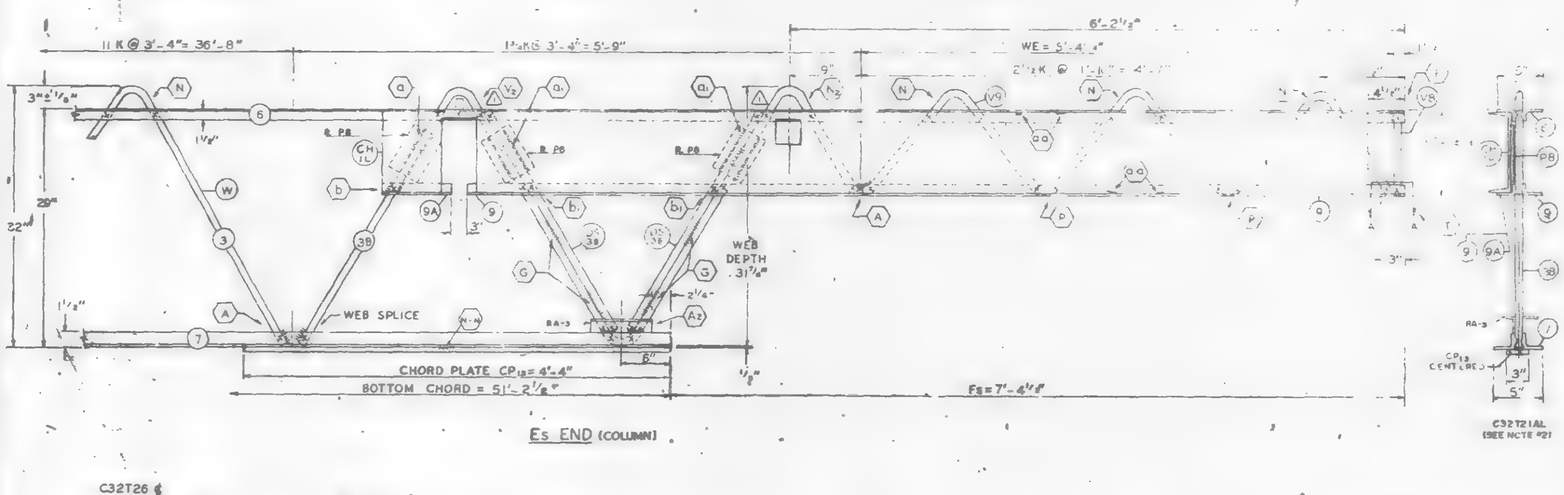
FLOOR TRUSS C32T21-L (4) SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

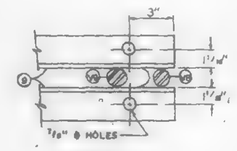
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A81-20	PLATE
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR	DATE 1/13/89	DRAWN BY: Bdc DATE OCT. 10, 1988	
APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A.	DATE ____	CHECKED BY: T.R.C. DATE OCT. 10, 1988	
DETAILED BY: A CARL WEBER		FABRICATORS CONST. NO. W.T.C. 221	ST 291



FABRICATION REQUIR		
	DESIGN	LERANCE
CAMBER AT MIDSPAN	3/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4
PANEL "	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH "	29" 7/8"	± 1/8"





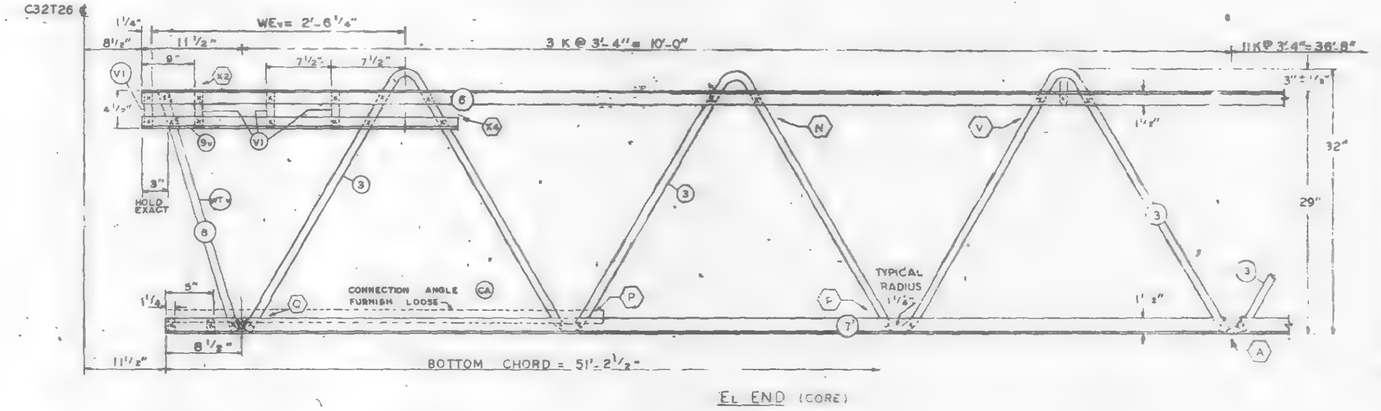
SECTION A-A

NOTE 1

ALL WELDS ARE CONTINUOUS FILLET WELDS UNLESS OTHERWISE INDICATED. (x). INTERMITTENT WELDS ARE SPACED AT 9" CENTERS EXCEPT AT BOTTOM CHORD WELD SPLICES. (9 REQ'D). WELDS IN HEXAGONS INDICATE WELD DETAIL, ie., (A). WELDS IN SQUARES INDICATE MINIMUM WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., RQ. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
CHANNEL DETAILS SHOWN ON SHEET ST 407.
PL PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21AL TRUSSES ARE APPLICABLE TO C32T21AR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



NO	DATE	REVISION	BY
1	10-31-68	AS NOTED	L.W.H.

REF. DRWG.

7-AB1-20	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 54	7-22-68
7-AB3-2	1-2-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
6A-124	8-1-68
7-AB1-11.2	7-22-68

PAINT
LAUCE [illegible] SPECIFICATION
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" HOLES	CHORD PLATE				SPLICE FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)			TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO.	DIA	MK	TYPE STEEL	SIZE	LENGTH	MK	NO	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T21AL-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	51'-2½"	3	A242	.92	8'-2 1/2"	14 K @ 3'-4" = 46'-8"	12	.92	—	—	—	—	—	4	.92	3"	PB	A36	3"x.42"x38"	5'-4"	N48	A242	2"x1½"x.25"	1'-1"	
					38	A242			38		.92	10'-7 3/8"	3 K @ 3'-4" = 10'-0"																			

ES END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER								CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	MK. V8 DIA	MK. V8 LENGTH	MK. V10 TYPE STEEL	MK. V10 DIA	MK. V10 LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T21AL-5810	9	A242	2"x1½"x.25"	2	1'-5"	5'-4¼"	9	A242	.92	2'-6 3/4"	A	A36	3"x.25"	4'-4"	A242	.92	10'-½"	A242	.92	8'-3 7/8"	—	—	—	CH 18	A36	18" 30	10'-0"
		9A	A242	2"x1½"x.25"	2	1'-5"																			CH 18	A36	18" 30	10'-0"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER (4 REQ'D)										DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LEN	MK. V2 OF	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END	C32T21AL-5810	8A	A242	2"x1½"x.31	8'-2"	2'-6 1/16"	8	A242	.92	2'-5 3/8"	—	—	—	—	A242	.92	4" 8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1½"x.31	4'-4"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	ES	
9'-0"	2"	22'-10 1/4"	36'-2 1/2"	49'-6½"	7'-4⅛"

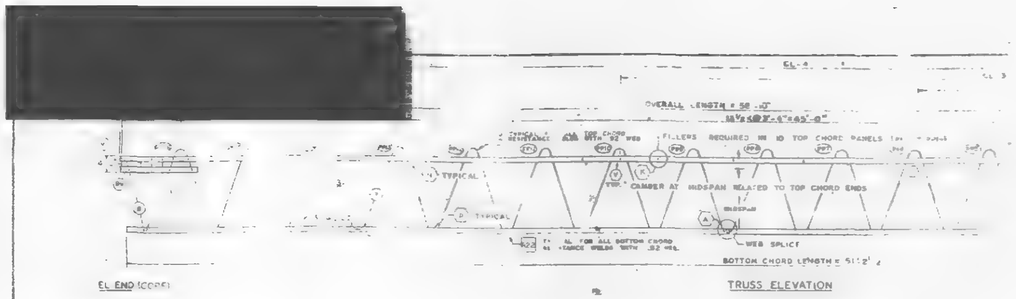
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T21AL SEE NOTE #1 x 58'-10"
WORLD TRADE CENTER TOWERS A & B

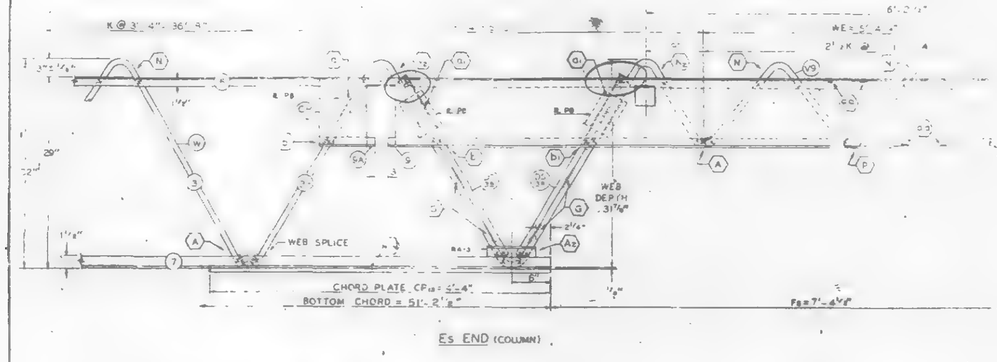
WORTHINGTON STEEL COMPANY

DESIGN BY [illegible]	DESIGN DRAWING NO. 7-AB1-20	PLATE
DETAILED BY MALISOFF, ILLINOIS	DRAWN BY GTC	
APPROVED FOR FABRICATION DATE 11/7/68 BY [illegible] FOR FABRICATOR	DATE OCT 21 1968	
APPROVED FOR FABRICATION DATE BY [illegible] FOR FABRICATOR	CHECKED BY T.M.CHIRA DATE OCT 19 1968	IN CHARGE OF PROD. DEPT.
DETAILED BY A CARLSON	FABRICATION CONT. NO. WTC 221	SHEET NO ST 82

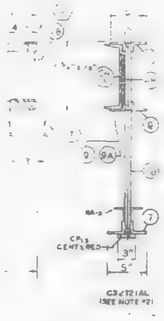
[redacted]

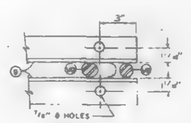


TRUSS ELEVATION

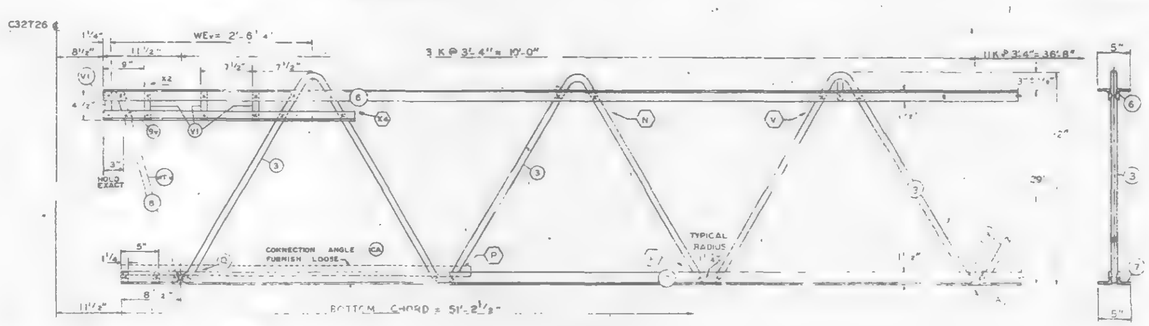


E5 END (COLUMN)





SECTION A-A



E1 END (CORE)

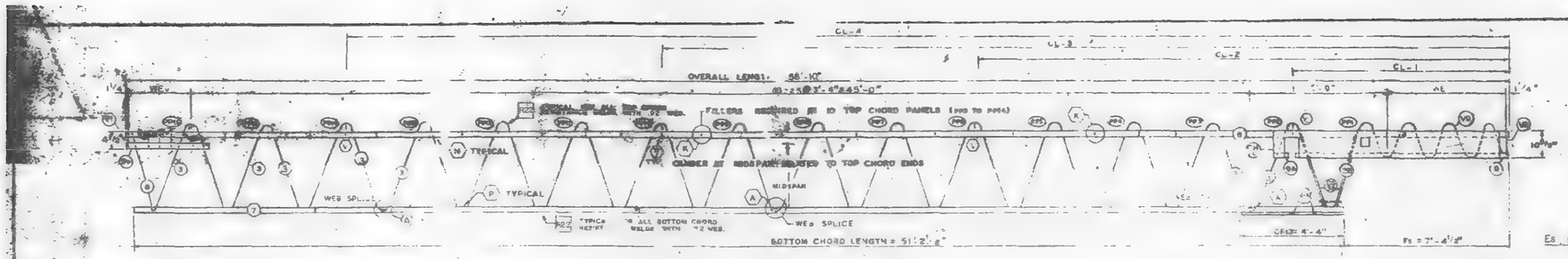
TRUSS DESIGNATION	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF #	FILLER NO.	FILLER DIA.	"M" CHORD HOLES	CHORD MK	CHORD TYPE STEEL	CHORD SIZE	CHORD LENGTH	REINF. CHORD
C32T2AL-58I0.6		A242				12							

E5 END	TRUSS DESIGNATION	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK V8 TYPE STEEL	DIA	LENGTH	MK V9 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH
	C32T2AL-58I0		A36	3"x.25"	4'-4"	A242	90	10 1/2"	A242	90	8'-3 7/8"			

E1 END	TRUSS DESIGNATION	EAVES GUSSET MK	TYPE STEEL	SIZE	WE GUSSET MK	TYPE STEEL	SIZE	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER (4 REQ'D) MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	SINGLE STRUT MK	TYPE STEEL	DIA	LENGTH	CONNECTION ANGLE NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
E1 END	C32T2ISL-58I0	g1	A242	2"x1 1/2"x.31					—	—	—	—	A242	.C	4' 5 8"	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1 1/2"x 31	4'-4"

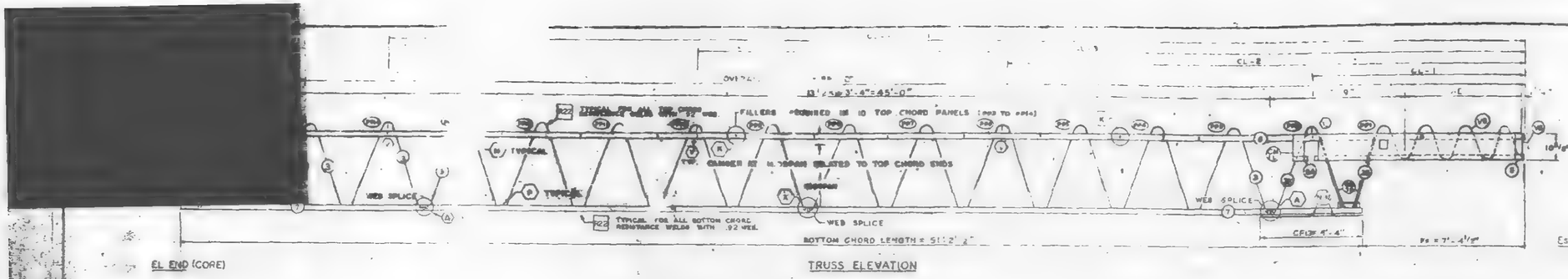
10/19/05 SK

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/8"	± 3/4"
DESIGN DEPTH	29"	± 1/4"
PANEL R	5'-6"	± 1/8"
OVERALL LENGTH	58'-10"	± 1/8"
WEB DEPTH	31"	± 1/4"

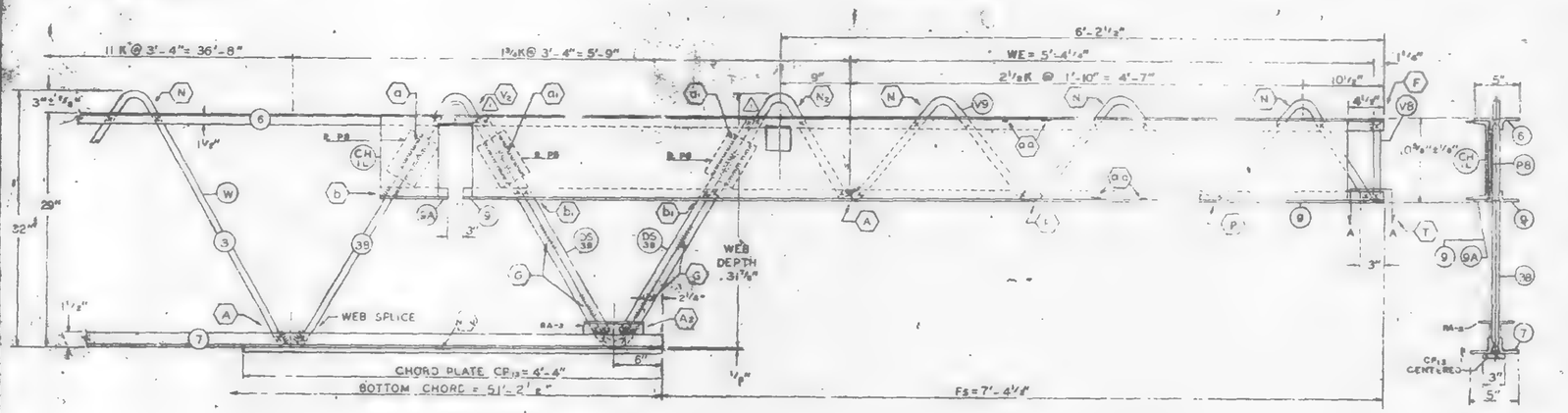

OVERALL LENGTH - 58'-10"
11 K @ 5'-4" = 58'-8"
FILLERS REQUIRED @ ID TOP CHORD PANELS (PP2 TO PP14)
TYPICAL
TYP. CAMBER AT MIDSPAN ADJUSTED TO TOP CHORD ENDS
MIDSPAN
WEB SPLICE
BOTTOM CHORD LENGTH = 51'-2 1/2"
WE
TYPICAL
TYPICAL
TYPICAL
WELDS WITH 1/2 WEB.
WEB SPLICE
WE
WE
W

[redacted]

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/8"	-0 +1/8"
DESIGN DEPTH	39"	± 1/8"
PANEL #	9'-0"	1/16"
OVERALL LENGTH	51'-0"	± 2/8"
WEB DEPTH	31"	± 1/16"



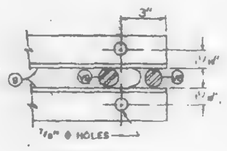
TRUSS ELEVATION



Es END (COLUMN)

C32T21 (SEE NOTE 2)

CH IL PLACED AS SHOWN FOR C32T21-R
CH IR PLACED AS SHOWN FOR C32T21-L (2)

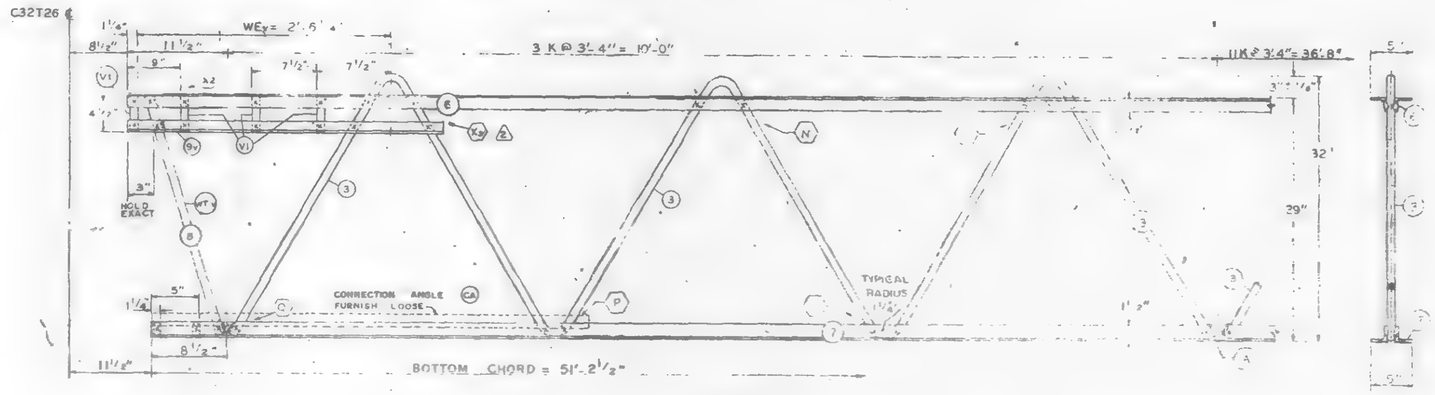


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED. (R).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (ARC).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., P8.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21-L (2) TRUSSES ARE APPLICABLE TO C32T21-R TRUSSES WITH CHANNEL CH IR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)

NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	G.DC
1	10-31-68	AS NOTED	LWH

(2) REF. DRWG.

7-AB1-20	10-4-68
7-AB1-56	10-4-68
7-AB1-52	7-22-68
7-AB1-12	1-3-68
7-AB1-24	9-15-68
7-AB4-1&172	10-4-68
9A-124	10-11-68
7-AB4-142	7-22-68

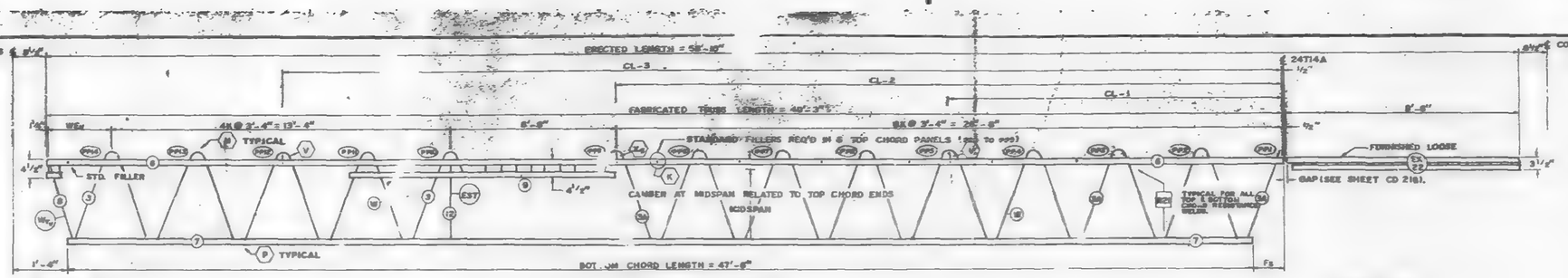
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" GUSSETS	CHORD PLATE			CHANNEL PLATES				REINFORCING PLATES			
(2)	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO OF K	NO.	DIA.	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
									3	A242	92	8'-3 1/2"	4 K @ 3'-4" = 48'-8"													
C32T21 L-5810	6	A242	2"x6"x 25/64"	38'-10 1/2"	7	A242	2"x6"x 25/64"	51'-2 1/2"	38	A242	92	10'-7 3/16"	3 K @ 3'-4" = 9'-8"	12	92	—	—	—	—	4	A36	8"x 3/8"	5'-2"	9A&B	A242	3"x 1/2"	5'-2"

	TRUSS DESIGNATION	BEARING ANGLES					DIAGONAL STRUT				CHORD PLATE			END STIFFENER (4 REQ'D)								CHANNEL			CHECK DIMENSION FOR TRUSS FAB.				
	(2)	MK	TYPE STEEL	CHORD SIZE	POS	LENGTH	MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK V8 TYPE STEEL	DIA.	LENGTH	MK V9 TYPE STEEL	DIA.	LENGTH	MK V5 TYPE STEEL	MK	TYPE STEEL	LENGTH	LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
COLUMN END	C32T21 L-58K	8 9A	A242 A242	6"x4"x 5/16" 6"x4"x 5/16"	8 9A	3'-4" 3'-4"	4	A242	.92	2'-6 3/4"	5	A36	3/4"x 25"	4'-4"	A242	.92	10'-2"	A242	.92	8'-3 7/8"	—	A36 A36	18 20	10'-0" 10'-0"	5'-6 1/2"	22'-10 1/2"	36'-2"	49'-8 1/2"	7'-4 1/2"

	EL END	TRUSS DESIGNATION	BEARING ANGLES					WE	DIAGONAL STRUT				VERTICAL STRUT			END STIFFENER (4 REQ'D)											DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE				
		(2)	MK	TYPE STEEL	CHORD SIZE		LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK V	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	MK V4	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
CORE END		C32T21 L-5810	8	A242	2"x6"x 31		3'-2"		4	A242	.92	2'-5 3/16"	—	—	—	—	A242	.92	4 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x4"x 31	8'-4"

DRAWN BY		
DATE	OCT. 13 1968	
CHECKED BY	J.M.CHIARA	IN CHARGE OF PROD. DEPT.
FABRICATION CONT. NO.		SHEET NO.
W.T.C.	221	ST 221 L

DETAILED BY A. ARL WEBER



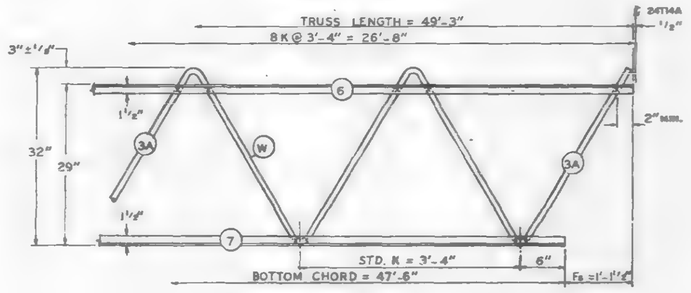
E_L END (CORE)

TRUSS ELEVATION

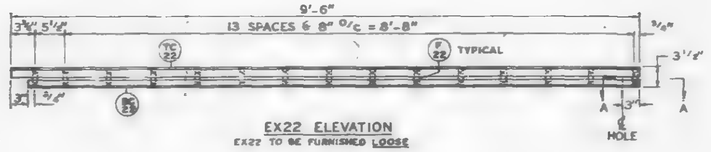
E_S END (COLUMN)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	13/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
WEB DEPTH	31"	± 1/4"
OVERALL TRUSS LENGTH	49'-3"	± 3/8
*OVERALL EXT. END LENGTH	9'-6"	4"

*EXT. END MK. EX22 TO BE FURNISHED LOOSE.



E_S END (COLUMN)

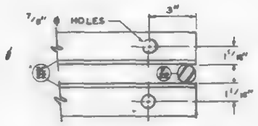


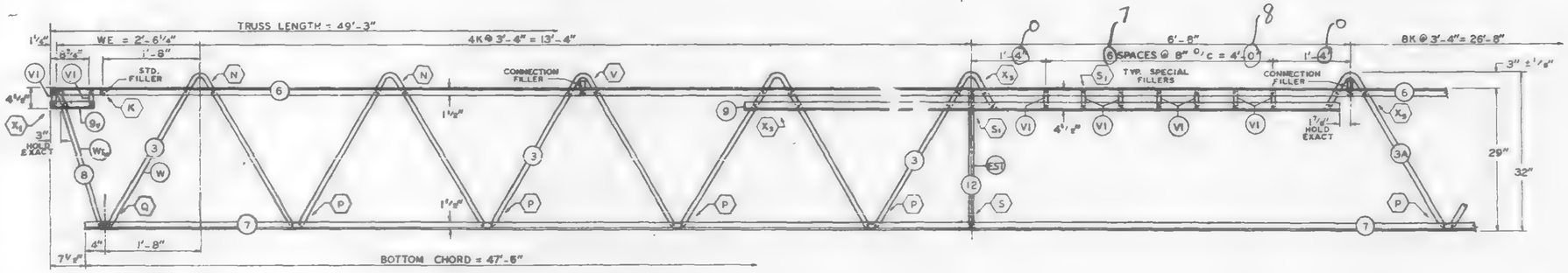
EX22 ELEVATION

EX22 TO BE FURNISHED LOOSE

LIST OF MATERIALS FOR EX22						
MK.	PCS.	TYPE STEEL	DIA.	ANGLE SIZE	LENGTH	TOLERANCE
TC22	2	A242	——	2"x1 1/2"x.25"	9'-6"	+1/4" -0"
BC22	2	A242	——	2"x1 1/2"x.25"	9'-3"	+1/4" -0"
F22	15	A242	.98	——	3 3/16"	± 1/8"

ALL PANEL POINTS RESISTANCE WELDED. (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (####).
ALL WELD DETAILS SHOWN ON SHEET ST 290, ST 291, ST 292 & ST 293.
LETTER IN HEXAGON INDICATE WELD DETAIL. ie., (P).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH. (IDENTIFIED IN THE QUALITY CONTROL ROGRAM. ie., R24).





E_L END (CORE)

REF. DRWG.

7-AB1-21	10-4-68
7-AB4-10	10-4-68
7-AB1-54	10-4-68
7-AB1-1	4-1-68
7-AB3-34 & 35	10-4-68
7-AB4-57 & 58	10-4-68
SA-124	10-11-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					STD. FILLER		"M" C/C HOLE	BEARING ANGLES				VERTICAL "EST" STRUT				SPECIAL FILLER			CONNECTION FILLER		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	PCS.	DIA.	LENGTH	MK. VI TYPE STEEL	DIA.	LENGTH (7 REQ'D)	TYPE STEEL	DIA.	LENGTH (3 REQ'D)
C32T22-493	6	A242	2"x1 1/2"x.25"	49'-3"	7	A242	2"x1 1/2"x.25"	47'-6"	W	A242	.98	8'-3 1/2"	4'-0" K @ 3'-4" = 13'-4"	7	.98	——	9	A242	2"x1 1/2"x.25"	10'-5 1/8"	12	A242	1	.98	2'-4 3/8"	A242	.98	4 3/8"	A242	.98	3"

COLUMN END	Es END
TRUSS DESIGNATION	
	C32T22-493

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS			
CL-1	CL-2	CL-3	Fs
13'-3 1/8"	26'-7 1/8"	39'-11 1/8"	1'-1 1/2"

CORE END	SL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	END STIFFENER			WEB "WTv"				
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK. VI TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	PCS.	DIA.	LENGTH
		C32T22-493	9v	A242	2"x1 1/2"x.25"	10"	2'-6 1/8"	A242	.98	4 3/8"	8	A242	1	.98	2'-5 5/8"

SKILLING-KELF CHRISTIANSEN-ROBERTSON Structural & Civil Engineers
12/6/68 SK

NO.	DATE	REVISION	BY

STEEL TRUSS DETAILS

WORLD TRADE CENTER – N.Y.C.

FOR

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T22 x 45'-3" LONG

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE

APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE

DETAILED BY: A. EARL WEST LACLEDE STEEL CO.

DESIGN DRAWING NO. 7-AB1-21

DRAWN BY gdc. DATE NOV. 13, 1968

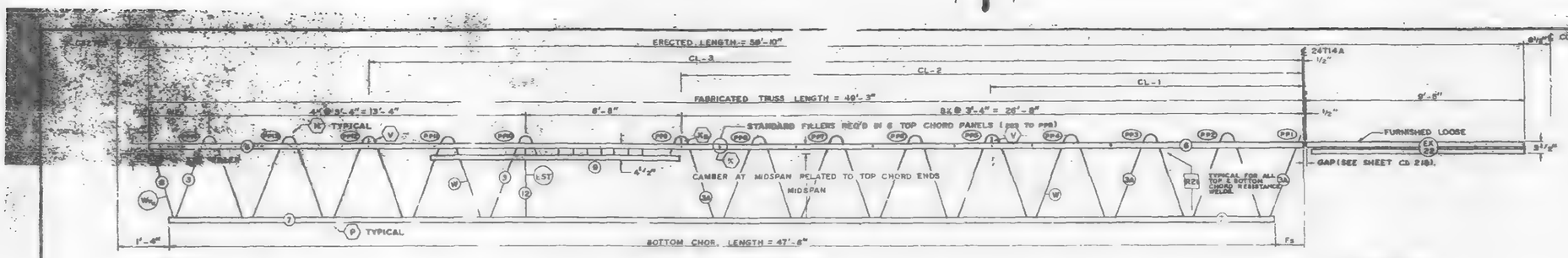
CHECKED BY: T.M. OMURA DATE NOV. 13, 1968

FABRICATION CONT. NO. W.T.C. 221

PLATE

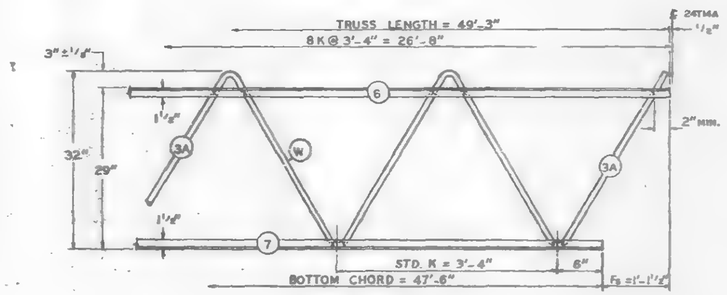
IN CHARGE OF PROD. DEV.

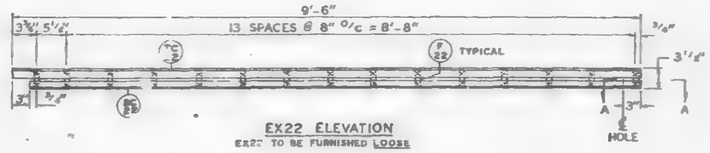
SHEET NO. ST 222



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	13/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
WEB DEPTH	31 7/8"	± 1/4"
*OVERALL TRUSS LENGTH	49'-3"	± 3/8"
*OVERALL EXT. END LENGTH	9"	+1/16"

*EXT. END MK. EX22 TO BE FURNISHED LOOSE.

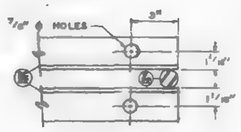




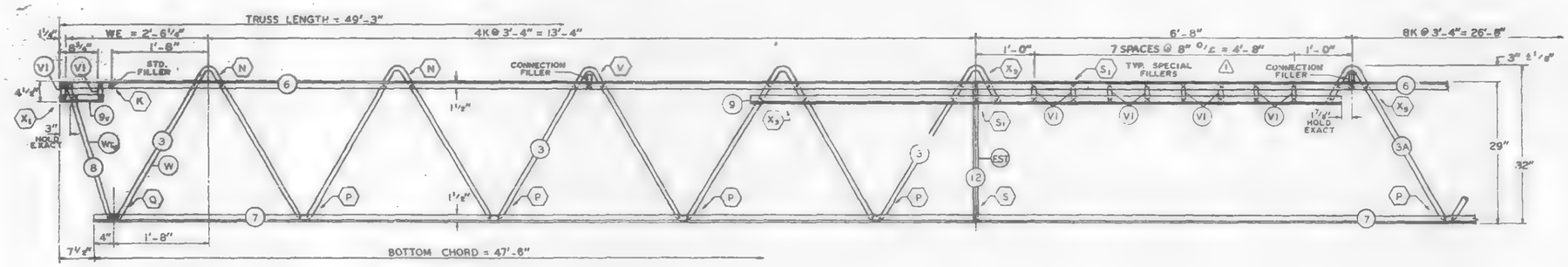
EX22 ELEVATION
EX22 TO BE FURNISHED LOOSE

LIST OF MATERIALS FOR EX22						
MK.	PCS.	TYPE STEEL	DIA.	ANGLE SIZE	LENGTH	TOLERANCE
TC22	2	A242	——	2" x 1 1/2" x .25"	9'-6"	+1/4" -0"
BC22	2	A242	——	2" x 1 1/2" x .25"	9'-3"	+1/16" -0"
F22	15	A242	.98	——	3 3/16"	± 1/8"

ALL PANEL POINTS RESISTANCE WELDED. (X).
ARC WELDS INDICATED ▨ SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (WM).
ALL WELD DETAILS SHOWN ON SHEET ST 290, ST 291, ST 292 & ST 293.
LETTERS IN HEXAGON INDICATE WELD DETAIL. ie., (P).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., R2.



SECTION A-A



TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					STD. FILLER	"M" C/C HOLE	BEARING ANGLES				VERTICAL "EST" STRUT				SPECIAL FILLER MK. VI			CONNECTION FILLER		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH (8 REQ'D)	TYPE STEEL	DIA	LENGTH (3 REQ'D)
C32T22-493	6	A242	2"x1 1/2"x.25"	49'-3"	7	A242	2"x1 1/2"x.25"	47'-6"	3 DIA.	A242	.98	28'-1 7/8"	4 @ 3'-4"=13'-4" 8 @ 3'-4"=26'-8"	7	.98	——	9	A242	2"x1 1/2"x.25"	10'-5 7/8"	12	A242	1	.98	2'-4 7/8"	A242	.98	4 3/8"	A242	.98	3"

COLUMN END	Es END	TRUSS DESIGNATION
		C32T22-493

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS			
CL-1	CL-2	CL-3	Fs
13'-3 1/8"	26'-7 1/8"	39'-11 1/8"	1'-1 1/8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	END STIFFENER			WEB "WTv"				
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK. VI TYPE STEEL	DIA.	LENGTH (12 REQ'D)	MK.	TYPE STEEL	PCS.	DIA.	LENGTH
		C32T22-493	9v	A242	2"x1 1/2"x.25"	10"	2'-6 1/4"	A242	.98	4 3/8"	8	A242	1	.98	2'-5 3/4"

NO	DATE	REVISION	BY
1	12-9-68	SPECIAL FILLER, REF. DRWG.	G.D.C.

REF. DRWG.

7-AB1-21	10-4-68
7-AB4-10	10-4-68
7-AB1-54	11-25-68
7-AB1-1	4-1-68
7-AB3-34 & 35	10-4-68
7-AB4-57 & 59	10-4-68
SA-124	10-11-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

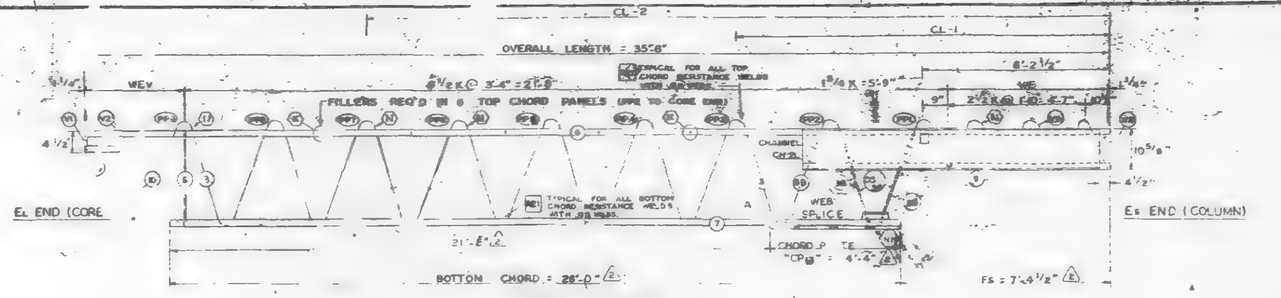
FLOOR TRUSS C32T22 x 49'-3" LONG

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-21	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE 12/12/68	DRAWN BY: g.d.c. DATE NOV. 13, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE NOV. 13, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER	LACLEDE STEEL CO.	FABRICATION CONT NO W.T.C. 221	SHEET NO. ST 222

CHORD PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE "WELD DETAIL, ie. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH QUANTIFIED IN THE QUALITY CONTROL MANUAL. ie. P8

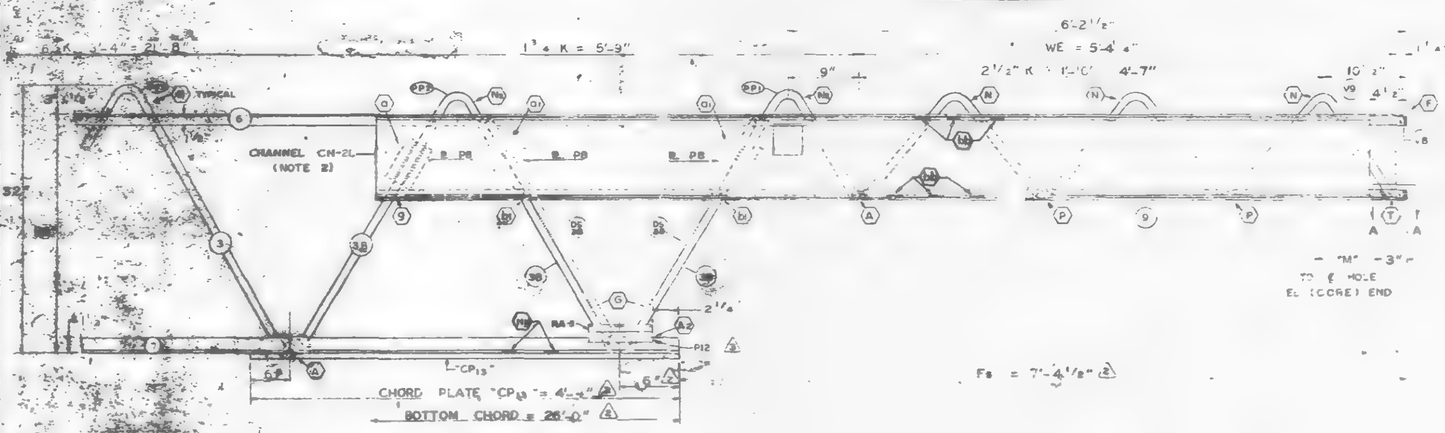


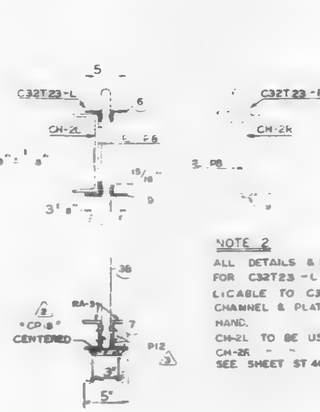
El END (CORE

Es END (COLUMN)

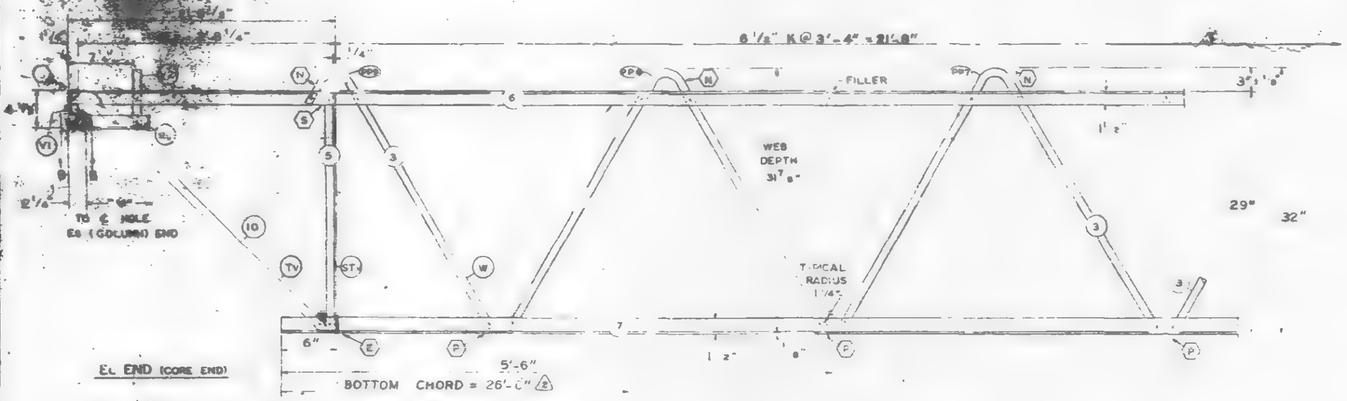
Fs = 7'-4 1/2"

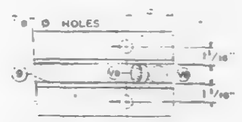
FABRICATION GROUP NOTES		
CAMBER AT MIDSPAN	3"	
DESIGN CAMBER	3"	
"E"	4"	±1
OVERALL LENGTH	35'-8"	± 3 c"
WEB DEPTH	31 7/8"	±1/16"
CL DIMENSIONS		±3/16"

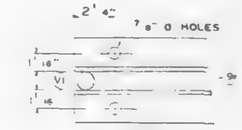




NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP. HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.







NO.	DATE	REVISION	BY
3	12-26-68	AS NOTED	S.M.C.
2	10-10-68	AS NOTED	S.M.C.
1	10-4-68	GENERAL	S.M.C.

3 REF. DRWG.

7-A81-22	10-4-68
7-A81-52	2-25-69
7-A81-53	7-22-69
7-A81-54	11-13-68
7-A84-55-56	10-4-68
SA-124	10-10-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	BOTTOM CHORD TWO ANGLES TYPE STEEL	CHORD SIZE	LENGTH (2)	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO OF "M" SEE NOTE	FILLER NO.	DIA.	℄ "M" ℄ HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINF. ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH.	SPEC. PLATES (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH.
C32T23-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	26'-0"	2	A242	.98	40'-1 1/4"	2 EC 3/4"x3/8" PL	—	—	—	—	—	—	P6	A36	1"x15"x7'-6"	—	—	—	—	—	—	—	—	—	—	—	—	—
									38	A242	.98	85'-7 5/8"	1 EA 6"x4"x5/16"	6	.98	35'-2 3/4"	—	—	—																	

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATE (2) MK.	TYPE STEEL	SIZE	LENGTH
	C32T23-L	9	A242	8"x6"x.38	2	10'-4 1/2"	5'-4 1/4"	25	A242	.98	2'-6 5/8"	2	A242	.98	10'-1 1/2"	A242	.98	6'-3 1/8"	—	—	—	—	—	40'-0"	4	A36	3"x25	4'-4 1/2"

CORE END Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE$_V$	DIAGONAL "TV" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STV" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
	C32T23-L	BV	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	98	4 3/8"	A242	98	7 3/8"	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/8"	—	—	7'-4 1/2" (2)

PAINT : LACLEDE ELECTROCOAT RED NO 10001

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

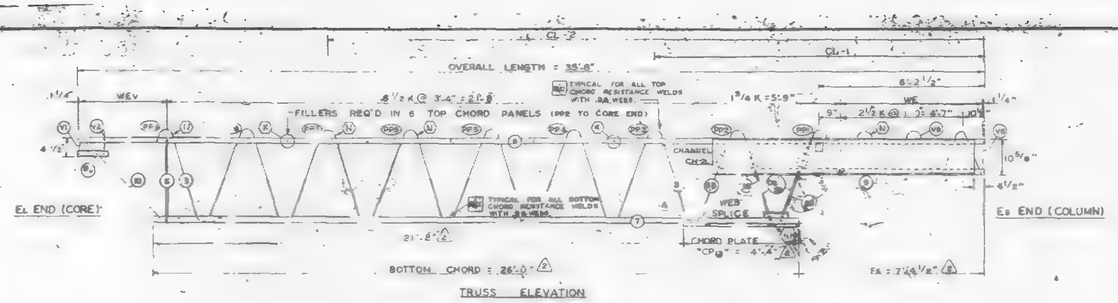
FABRICATION BY: LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: [signature] FOR P.O.N.Y.A. DATE 11/3/69
APPROVED FOR FABRICATION BY: _____ FOR FABRICATOR DATE _____
DETAILED BY: A. CARL WEBER

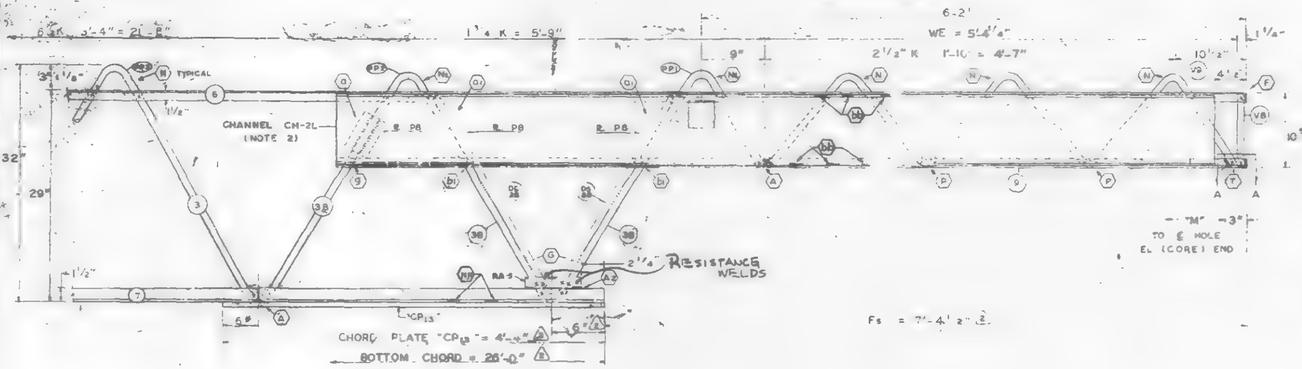
DESIGN DRAWING NO. 7-A81-22 PLATE —
DRAWN BY: [illegible] DATE SEPT. 6, 1968
CHECKED BY: E.B.CHURA DATE SEPT. 9, 1968
FABRICATION CONT. NO W.T.C. 221
IN CHARGE OF PROD. DEV.
SHEET NO. ST 223-1

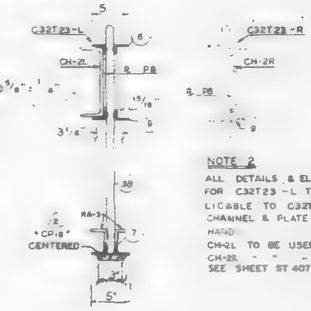
ALL PANEL POINTS RESISTANCE WELDED (RW).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (BW).
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283.
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE WELD DETAIL. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. (RW)

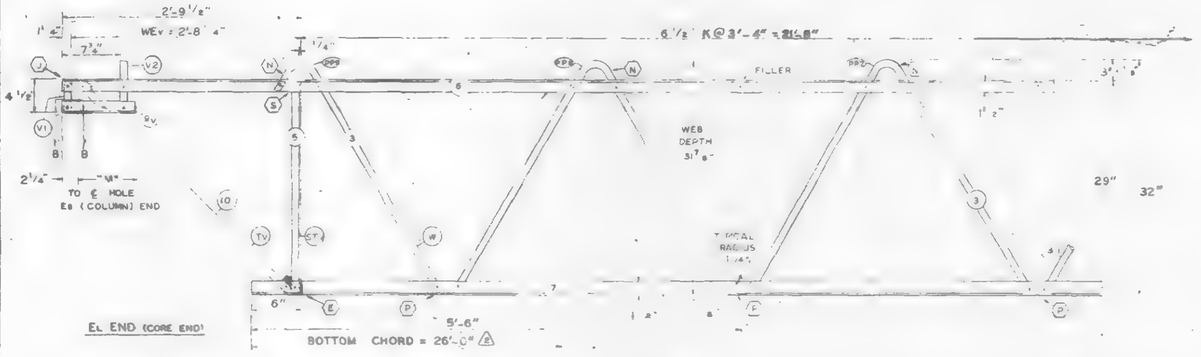


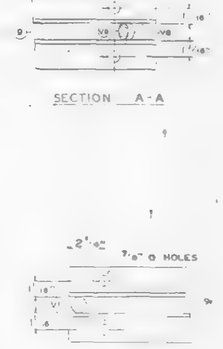
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	5'-4"	± 1/4"
OVERALL LENGTH	35'-8"	± 1/8"
WEB DEPTH	31 7/8"	± 1/4"
CL DIMENSIONS	—	—





NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CM-2L TO BE USED WITH C32T23-L
CM-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.





NO	DATE	REVISION	BY
2	10-18-68	AS NOTED	L.W.H
1	11-4-68	GENERAL	T.M.C

REF DRWG.

7-ABI-22	8-13-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	6-5-68
7-564-53-56	8-16-68
SA-124	8-1-68

PAINT: LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO OF "W" SEE NOTE 1	FILLER ℄ "W" HOLE NO.	DIA.	CONNECTION FILLERS NO.	DIA.	LENGTH
C32T23-L	8	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	25'-0"	3	A242	.98	60°-3 1/4	3	6	.98	—	—	—
									88	A242	.98	60°-3 1/4	3					

TRUSS DESIGNATION	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS	SIZE	LENGTH	REINF ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH	TRUSS DATA
C32T23-L	CP	A36	1/2"	4'-4 1/2"	PB	A36	3	4"x3/8"	5'-2"	RA-3	A36	2"x1/2"x.25	7'-1/2"	

	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE MK.	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS	END STIFFENER MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	CHANNEL SIZE	LENGTH	NOTE NO. 2 MK.	CHORD PLATE TYPE STEEL	SIZE	LENGTH
COLUMN END	C32T23-L	9	A242	2"x1 1/2"x.25	8	10'-6 1/2"	5'-4 1/4"	08	A242	.98	2'-8 3/4"	2	A242	.98	10 1/2"	A242	.98	8'-3 7/8"	—	—	—	CM-2L	A36 10 3.90 10 3.90	18'-0	CP	A36	1/2"	4'-4 1/2"

CHECK DIMENSION FOR FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-4 1/2"

	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. Y1 TYPE STEEL	DIA	LENGTH	MK. Y2 TYPE STEEL	DIA	LENGTH	MK. Y4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
CORE END	C32T23-L	9V	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 3/8"	A242	98	4'-3 1/2"	A242	98	7 3/8"	—	—	—	—	—	—	—	—	—	—	—

NO	DATE	REVISION	BY
2	10-18-68	AS NOTED	L.W.H
1	11-4-68	GENERAL	T.M.C

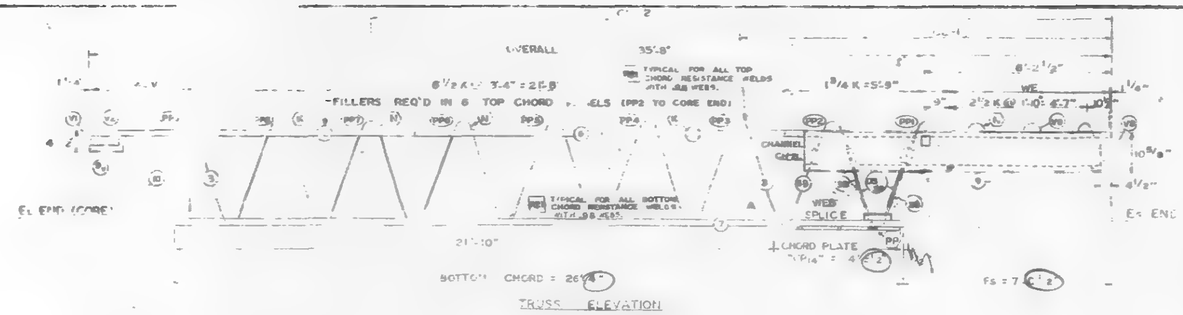
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED BY FOR FABRICATION FOR P.O.N.Y.A DATE 10/23/68
APPROVED BY FOR FABRICATOR DATE
DETAILED BY A CARL WEBER
DESIGN DRAWING NO. 7-ABI-22
DRAWN BY DATE SEPT 6, 1968
CHECKED BY T.M CHURA DATE SEPT 9, 1968
FABRICATION CONT. NO W.T.C. 221
PLATE —
IN CHARGE OF PROD DEV
SHEET NO. ST 223-1

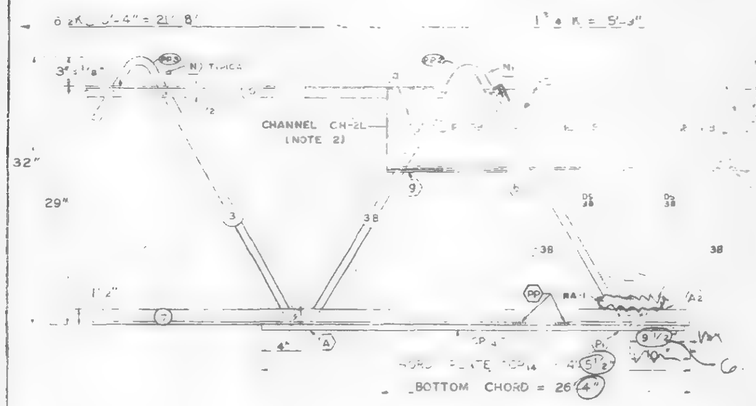
ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (PP3).
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283.
SEE SHEET ST295 FOR V1 & V2

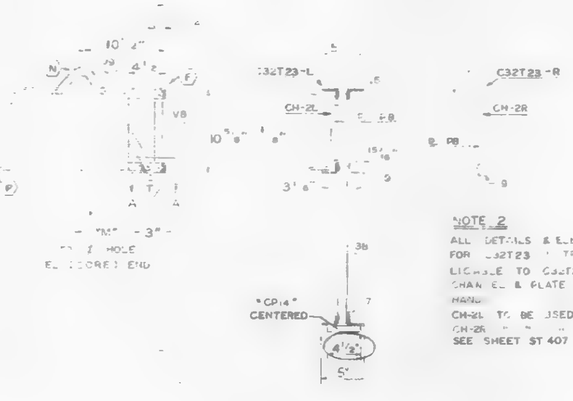
CHORD PLATE DETAILS SHOWN ON SHEET ST293.
LETTERS IN HEXAGON INDICATE WELD DETAIL. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. (B5)



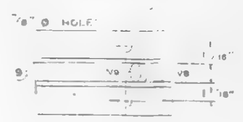
TRUSS ELEVATION

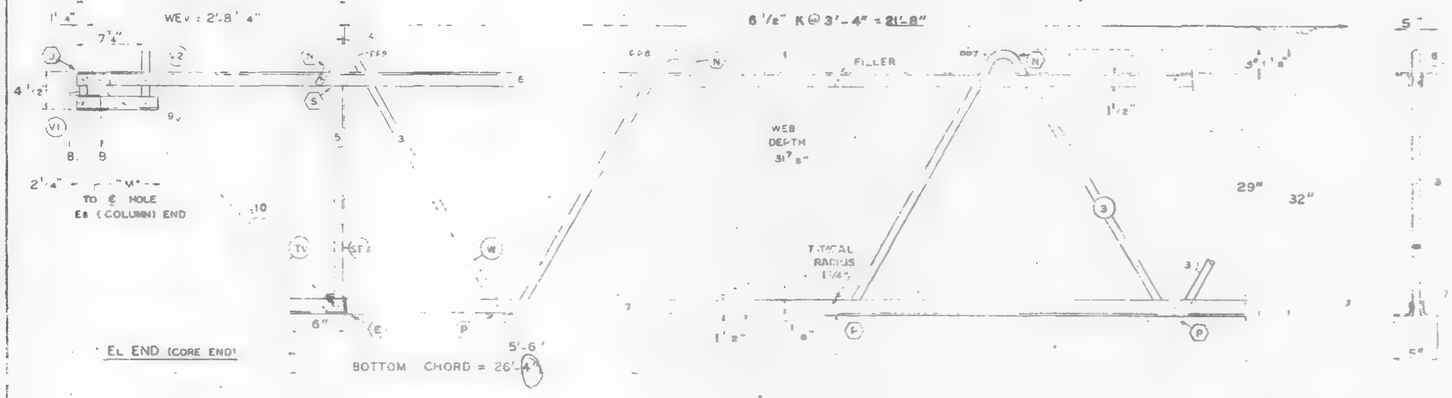
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "E"	2'-4"	± 1/8"
OVERALL LENGTH	35'-8"	± 3/8"
WEB DEPTH	31 - 3/8"	± 1/16"
CL DIMENSIONS		± 3/8"





NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.





NO.	DATE	REVISION	BY
1	10-4-68	GENERAL	T.M.C

REF DRWG.

DRAWING LIST	7-ABI-22	6-13-68
CHANGES & CORRECTIONS	7-ABI-52	2-15-68
	7-ABI-53	7-22-68
X	7-ABI-54	8-15-68
	7-64-53-56	8-5-68
10/15/68 SC	SA-124	8-1-68

PAINT: LASCLEDE ELECTROCOAT RED NO. 1000

STEEL FABRICATION DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A & B

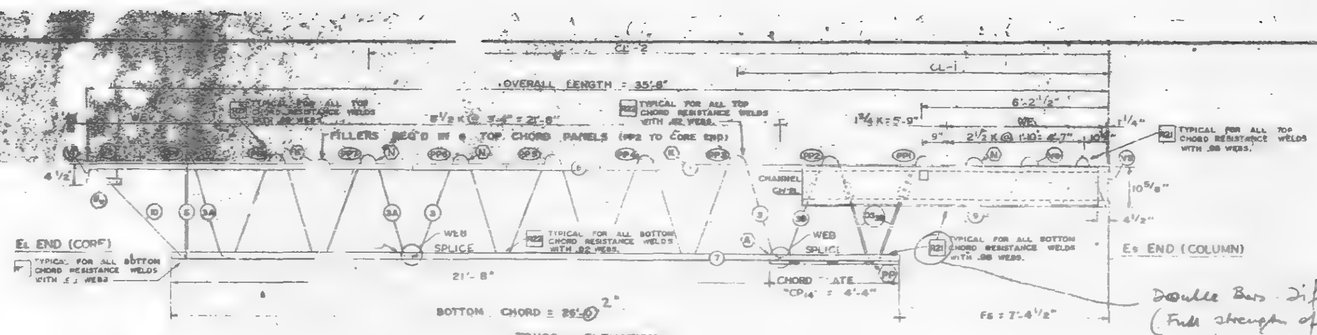
TRUSS DESIGNATION	TOP CHORD TWO ANGLES	BOTTOM CHORD TWO ANGLES	MAIN WEB "W"	FILLER "M"	CONNECTION TO HOLE - FILLERS	CHORD PLATE	CHANNEL PLATES	REINF. ANGLE (2 REQ'D)	TRUSS DATA
C32T23-L	6 A242 2"x2"x.25 35'-8"	7 A242 2"x1 1/2"x.25 26'-4"	6 .98 35'-2 3/4"	— — —			PB A36 3 4"x13.5 5'-5"	RA A242 3"x1 1/2"x.25 7'-5"	

COLUMN END	TRUSS DESIGNATION	TOP CHORD	BOTTOM CHORD	END DIFFERENTIAL	CHANNEL (NOTE NO. 2)	CHORD PLATE	CHECK DIMENSION FOR FAB LOCATION OF TRANS. TRUSS
	C32T23-L	9 A242 2"x2"x.25 10'-4 1/2"	5'-4" 4 .98 A242 .98 2 6 3/4" 2 A242 .98 10 1/2"	A242 .98 8'-3 7/8"	CH2 A36 10 3.30 10'-9" CH2R A36 10 2.30 10'-9"	TP 14 A36 4 1/2 x 7/8 4'-6 1/4" 3x.25	CL-1 12'-10 1/2" CL-2 26'-2 1/2" CL-3 — CL-4 — Fs 7'-0 1/2"

CORE END	TRUSS DESIGNATION	TOP CHORD	BOTTOM CHORD	WEB	DOUBLE STRUT	DOUBLE STRUT
	C32T23-L	8v A242 2"x1 1/2"x.25 10"	2'-8 1/4" 10 A242 .98 3'-6 1/8" 5 A242 .98 2'-4 7/8" A242 .98 4 3/8"	A242 .98 7 3/8" — — —	— — — —	— — — —

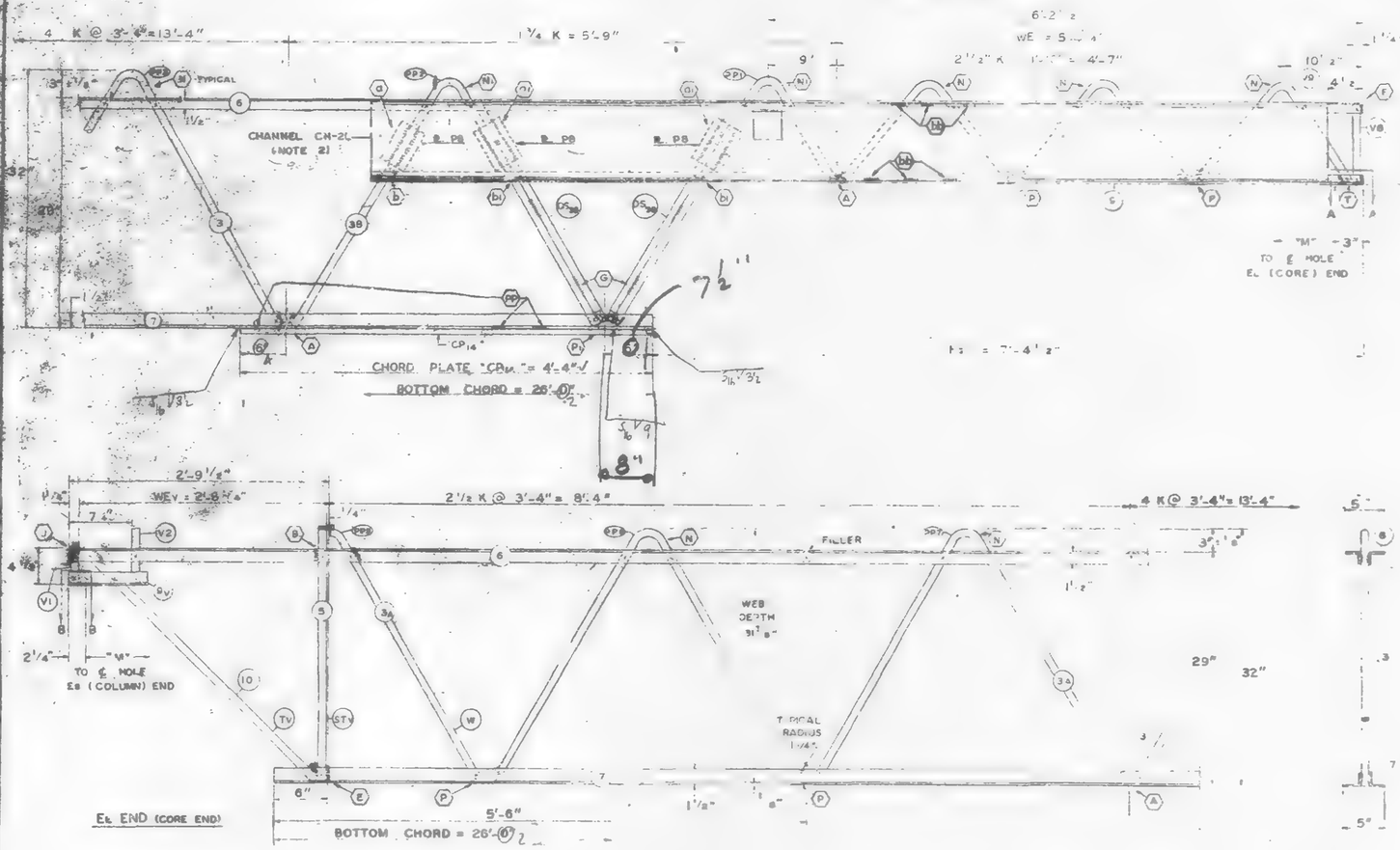
FABRICATED AT	MACOMB
APPROVED BY	
APPROVED FOR FABRICATION BY	FOR FABRICATION
DETAILED BY	
DESIGN DRAWING NO.	7-ABI-22
DATE	SEPT 6, 1968
CHECKED BY	T.M. CHURA
DATE	SEPT 9, 1968
FABRICATION CONT. NO.	WTC 221
IN CHARGE OF PROD. DEV.	
SHEET NO.	ST 223-L

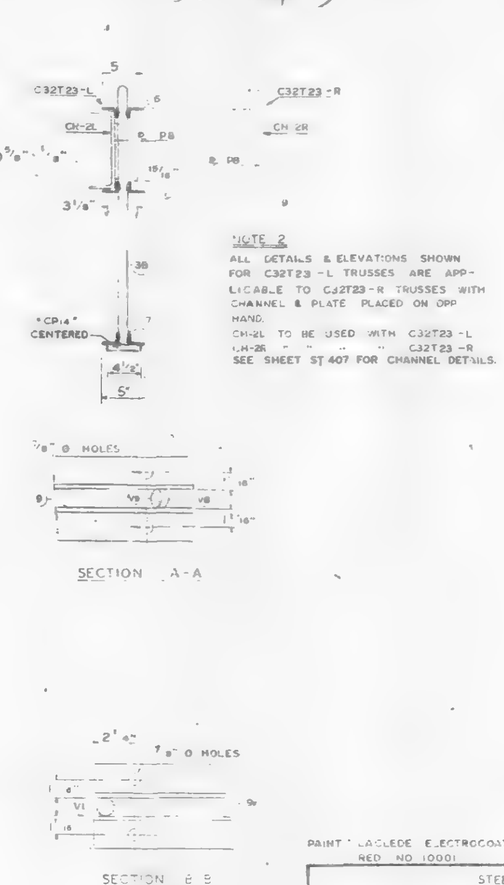
CHORD PLATE DETAILS SHOWN ON SHEET ST223.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE RESISTANCE WELD STRENGTH PROGRAM, ie. R5



Double Bars - Different R-Values !
(Full strength of both web bars to be developed)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN		3/8"
DESIGN DEPTH		±1/4"
PANEL "K"	4'-4"	
OVERALL LENGTH	35'-8"	±1/8"
WEB DEPTH	31"	±1/8"
CL DIMENSIONS		±1/8"





NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

REF. DRWG.

7-ABI-42	8-13-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	8-15-68
7-ABI-54-55-56	8-15-68
SA-124	8-1-68

PAINT: LAKESIDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO OF "K" SEE NOTE 1	FILLER NO	FILLER DIA.	"M" C/C HOLE	CONNECTION FILLERS NO	DIA.	LENGTH	CHORD PLATE QTY	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	TRUSS DATA	
C32T23-L	6	A242	2"x1½"x.25	35'-8"	7	A242	2"x1½"x.25	26'-0½"	3	A242	.82	24'-11"	4 K@ 3'-4"=13'-4"	6	.82	35'-2 3/4"	—	—	—	—	—	—	—	P8	A36	3	4½"x.79	5½"		
									3A	A242	.98	15'-8 7/8"	2½ K@ 3'-4"= 8'-4"																
									3B	A242	.98	10'-7 7/8"	1¾ K @ 3'-4"= 5'-9"																

COLUMN END	E. END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V10 DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH	NOTE NO. 2	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
		C32T23-L	8	A242	8"x1½"x.82	2	10'-4 7/8"	5'-4 1/4"	2A	A242	.98	2'-6 3/4"	2	A242	.98	10½"	A242	.98	8'-3 7/8"	—	—	CH-2L	A36	10 3.30	10'-6"	CP14	A36	5/8"x.75	4'-4"

CHECK DIMENSION FOR FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2½"	—	—	7'-4½"

CORE END	E. END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE V	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA ℄	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
		C32T23-L	8Y	A242	2"x1½"x.25	10"	2'-8¼"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-7 7/8"	A242	98	4'-3/8"	A242	.98	7'-3/8"	—	—	—	—	—	—	—	—	—	—	—

FABRICATED AT	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY	FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION By	FOR FABRICATOR DATE
DETAILED BY	A. CARL WEBER
DESIGN DRAWING NO.	7-ABI-22
DRAWN BY	
DATE	SEPT. 6, 1968
CHECKED BY	T.M.CHIRA
DATE	SEPT. 9, 1968
FABRICATION CONT NO	A-C 221
PLATE	
IN CHARGE OF LOCAL DEV.	
SHEET NO	ST 223-L

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

E.W.T.C. TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

WELDED (W).
AREAS.
SPLICES (ms).
ST290,

"HSE" ST285 FOR VT & V2

2ND PLATE DETAILS SHOWN ON SHEET ST283.
ITEMS IN HEXAGON INDICATE WELD DETAIL.
ITEMS ENCLOSED IN TRIANGLES INDICATE SHOP
STANCE WELD STRENGTH IDENTIFIED IN THE
ALITY CONTROL PROGRAM.

OVERALL LENGTH = 35'-8"

TYPICAL FOR ALL TOP CHORD RESISTANCE WELDS WITH .62 WEBS.

FILLERS REQ'D IN 6 TOP CHORD PANELS (PP2 TO CORE END)

TYPICAL FOR ALL BOTTOM CHORD RESISTANCE WELDS WITH .62 WEBS.

CHORD PLATE "CP3" = 4'-4"

BOTTOM CHORD = 26'-0"

TRUSS ELEVATION

CHANNEL CH-2L (NOTE 2)

CHORD PLATE "CP3" = 4'-4"

BOTTOM CHORD = 26'-0"

C32T24-L

C32T24-R

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T24-L TRUSSES ARE APPLICABLE TO C32T24-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP. HAND.
CH-2L TO BE USED WITH C32T24-L
CH-2R " " " " C32T24-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

EL END (CORE END)

BOTTOM CHORD = 26'-0"

FABRICATION DETAILS

CAMBER AT MIDSPAN	
DESIGN DEPT.	
PANEL "K"	
OVERALL LENGTH	35'-8"
WEB HEIGHT	
CL DIMENSIONS	

NO.	DATE	REVISION	BY
2	12-26-68	AS NOTED	
1	11-7-68	AS NOTED	

REF DRWG

7-ABI-22	10-4-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	11-25-68
7-A64-53-56	10-4-68
SA-124	10-2-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES							BOTTOM CHORD TWO ANGLES							WEBS								HOLE								SPLICE PLATES (2 REQ'D)				REINF. ANGLE (2 REQ'D)			
	MK	TYPE STEEL	CHORD SIZE		PCS	LENGTH		MK	TYPE STEEL	CHORD SIZE		PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH	PCS	MK	TYPE STEEL	DIA	LENGTH	PCS	MK	TYPE STEEL	DIA	LENGTH	PCS	MK	TYPE STEEL	SIZE	LGTH	MK	TYPE STEEL	SIZE	LGTH
C32T24-L	6	A242	2"x	2"x.25	35'-8"			A242	2"x	2"x.25	25'-0"				A242	.92				A242	.92				A242	.92				PI2	A36	1"x6'-8"	7'-2"	R68	A242	2"x1½"x.25	7'-½"

END	DESIGNATION	BEARING ANGLES			WEv	DIAGONAL "TV" STRUT			VERTICAL "STV" STRUT			END STIFFENER						DOUBLE STRUT		DOUBLE STRUT	
		MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	DIA	LENGTH	MK	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE	TYPE
E	C32T24-L	30	A242	2"x1½"x.25	10"	2'-6.4"	10	A242	.98	3'-6.4"	5	A242	.98	2'-4.6"	6	A242	.98	4"	5	A242	.98				

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FOR TRUSS C32T24-L 35'-8" OVERALL (SEE NOTE NO. 2)
ADJ. TRUSS CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION DATE
FOR FABRICATOR
DESIGNED BY: EARL PEER

DESIGN DRAWING NO. 7-ABI-22
DRAWN BY: [illegible]
DATE SEPT 23, 1968
CHECKED BY: T.M. CHERA
DATE SEPT 24, 1968
FABRICATION CONT. NO. W.T.C. 221

PLATE
IN CHARGE OF
PROJ. ENGR.
SHEET NO. ST 224

PANEL POINTS RESISTANCE WELDED (RW).
WELDS INDICATED AT SHADED AREAS
AT BOTTOM CHORD WEB SPLICES (RW).
WELD DETAILS SHOWN ON SHEETS ST2.0, ST2.1 & ST2.2.
SHEET ST2.2 FOR V1 & V2

PLATE DETAILS SHOWN ON SHEET ST2.3.
LETTERS IN HEXAGON INDICATE WELD DETAIL, IN DIAMOND & SUNBURST OR SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.

OVERALL LENGTH = 35'-8"

FILLERS REQ'D

8 TOP CHORD PANELS (PP2 TO CORE END)

TYPICAL FOR ALL TOP CHORD RESISTANCE WELDS WITH .62 WEB.

TYPICAL FOR ALL BOTTOM CHORD RESISTANCE WELDS WITH .62 WEB.

WEB SPLICE

CHANNEL CHORD

RA-3

END (CORE END)

BOTT. CHORD = 25'-0"

TOP CHORD = 26'-0"

EL END (CORE END)

BOTTOM CHORD = 25'-0"

SECTION B-B

SHOWN
... ARE APP-
... TRUSSES WITH
... PLACED ON OPP
... WITH G32T24-L
... G32T24-R
SEE SHEET ST 4.02 FOR CHANNEL DETAILS.

FABRICATION REQUIR...

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	5 1/4"	±1/8"
DESIGN DEPTH	288"	±1/8"
PANEL "E"	57'-6"	±1/16"
OVERALL LENGTH	857"	±1/4"
WEB DEPTH	240"	±1/16"
CL DIMENSIONS		CL 0"

NO.	DATE	REVISION	BY
1	11-7-68	AS NOTED	G.D.C.

REF. DRWG ... AB-...2 ... 10-4-68
... 52 ... 2-15-68
... 53 ... 7-22-68
... 10-4-68
... 5-56 ... 10-4-68
5A-124 ... 10-1-68

...EDE ELECTROCOAT
NEW NO 1000!

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	BOTTOM CHORD TWO ANGLES TYPE STEEL	CHORD SIZE	LENGTH	MK	MAIN WEB "W" TYPE STEEL	DIA.	LENGTH	NO OF "K" SEE NOTE 1	FILLER PLATE AT "S" HOLE NO.	DIA.	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T24-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	28'-0"	3	A242	.92	24'-11"	4 K @ 3'-4" = 13'-4"	6	.92	35'-2 3/4"	—	—	—	—
									34	A242	.98	20'-1 1/4"	3 K @ 3'-4" = 10'-0"							
									35	A242	.92	(10'-1 1/4")	3 K @ 3'-4" = 10'-0"							

TRUSS DESIGNATION	Es END	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WEB	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH	PLATE NO. 2 MK	CHORD PLATE TYPE STEEL	SIZE	LENGTH
C32T24-L		9	A242	2"x1 1/2"x.25	2	10'-4 1/2"	5'-4 1/4"	38	A242	.92	2'-6 3/4"	2	A242	.92	10'-1 1/2"	A242	.92	8'-3 7/8"	—	—	—	CH1	A36	C 7.30	10'-0"	12	A36	3"x.59	4'-4"
																						CH2	A36	10 x 30	10'-0"				

CHECK DIMENSION FOR FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Es
12'-10 1/2"	26'-2 1/2"	—	—	17'-4 1/2"

CORE END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEL	DIAGONAL "TV" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STV" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS
		C32T24-L	10	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	.98	2'-9 1/8"	A242	.98	4'-3 7/8"	—	—	—	—	—	—	—	—	—	—	—	—	—

1	11-7-68	AS NOTED	G.D.C.
NO.	DATE	REVISION	BY

STEEL TRUSS DETAIL
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T24-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
SHOP LOCATED MADISON, ILLINOIS
DESIGN DRAWING NO. AB-122
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/7/68
DRAWN BY [illegible] DATE SEPT 23, 1968
APPROVED FOR FABRICATION BY: DATE:
CHECKED BY: T.M. CHURA DATE: SEPT 24, 1968
DETAILED BY: A.S.M.
FABRICATION CORE NO.

ALL WELD DETAILS SHOWN ON SHEETS ST290, ST 292, 295 & ST293.
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAIL SHOWN ON SHEET ST283.

LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.

FABRICATION REQUIREMENTS

	CAMBER	CLEARANCE
CAMBER AT MIDSPAN	5 3/16"	3 1/2"
DESIGN DEPTH	29"	
PANEL "K"	5'-4"	
OVERALL LENGTH	55.8"	
WEB DEPTH	31 7/8"	
CL DIMENSIONS		3'-8"

FILLERS REQ'D IN 6 TOP CHORD PANELS (PP2 TO CORE END)

TYPICAL FOR ALL TOP CHORD RESISTANCE WELDS WITH 82 WELDS

TYPICAL FOR ALL BOTTOM CHORD RESISTANCE WELDS WITH 82 WELDS

WEB SPLICE

CHORD PLATE "CP13" = 4'-4"

E1 END (CORE)

E8 END (COLUMN)

BOTTOM CHORD = 26'-0"

TRUSS ELEVATION

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T24-L TRUSSES ARE APPLICABLE TO C32T24-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP. HAND

CH-2L TO BE USED WITH C32T24-L

CH-2R " " " " C32T24-R

SEE SHEET ST 407 FOR CHANNEL DETAILS.

TO ℄ HOLE E8 (COLUMN) END

TO ℄ HOLE E1 (CORE) END

BOTTOM CHORD = 26'-0"

SECTION A-A

SECTION B-B

REF DRWG

SA 24	

PAINT - ACHESON 6 EXTROCOAT
RED NO. 2001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER "M" & ℄ HOLE			CONNECTION FILLERS			CHORD PLATE			CHANNEL PLATES				TRUSS DATA		REINF. ANGLE (E END)		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "W" SEE NOTE	NO.	DIA.	MK.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH			MK.	TYPE STEEL	SIZE	LENGTH
C32T24-L	6	A242	2"x6 1/2"x.25	35'-8"	7	A242	2"x6 1/2"x.25	20'-0"	38	A242	.88	3'-6 1/4"	8	6	.88	35'-2 3/4"	—	—	—	—	—	—	P8	A36	3	4 1/2"x.38	5'-4"			RA6	A242	2"x4"x.25	7'-1/2"
									39	A242	.82	10'-1 7/8"	8																			

COLUMN END	E8 END	TRUSS DESIGNATION	BEARING ANGLES				W.E.	DIAGONAL "D" STRUT				END STIFFENER							CHANNEL	NOTE NO. 2	CHORD PLATE		
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	CHANNEL SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
		C32T24-L	9	A242	2"x11 1/2"x.88	10'-10 1/2"	5'-4 1/4"	11	A242	.82	2'-6 3/4"	2	A242	.82	10 1/2"	A242	.82	6'-3 7/8"	—	—	—	—	—	A36	9"x.28	4'-4"

CORE END	E1 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "Tv" STRUT				VERTICAL "Sv" STRUT				END STIFFENER						DOUBLE STRUT				DOUBLE STRUT			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	PCS
		C32T24-L	10	A242	2"x11 1/2"x.25	10"	2'-6 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	.88	4 3/8"	A242	.88	7 7/8"	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR FAB

LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	25'-2 1/2"	—	—	7'-6 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T24-L 35'-8" OVERALL (SEE NOTE NO. 2)

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-22	
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 10/24/68	DRAWN BY [illegible] DATE SEPT 23, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR	DATE	CHECKED BY [illegible] IN CHARGE DATE SEPT 24, 1968	
DETAILED BY A. CARL WEBER		FABRICATION NO. WTC 221	SHEET ST 224-L

OVERALL LENGTH = 35'-8"

FILLERS REQ'D IN 8 TOP CHORD PANELS (PIE TO CORE END)

SEE SHEET ST 215 FOR VI & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST253
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS & NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH DEFINED IN THE
QUALITY CONTROL PROGRAM

6 1/2 K @ 3'-4" = 21'-8"

CHANNEL CN-7L
(NOTE 2)

CHORD PLATE LENGTH = 4'-4"
BOTTOM CHORD = 26'-0"

6 1/2 K @ 3'-4" = 21'-8"

TO ℄ HOLE
AT OPPOSITE END

EL END (CORE END)

BOTTOM CHORD = 4'-0"

FABRICATOR

DETAILS & ELEVATIONS SHOWN
[illegible] TRUSSES ARE APPR-
[illegible] 32725-1 TO 32725-9 INCL. WITH
[illegible] & PLATE PLACED ON TOP

PLATE TO BE USED WITH 32725-1L
THRU 32725-9
SEE SHEET ST 407 FOR CHANNEL DETAILS.

NO.	DATE	DESCRIPTION	BY
2	12-26-68	AS NOTED	H.D.C.
1	11-7-68	WELD DETAILS REF DRWG.	H.D.C.

2 REF DRWG 7-A81-23 10-4-68
7-A81-52 12-26-68
7-A81-58 9-6-68
7-A81-24 11-25-68
7-784-55-56 10-14-68
SA-124 10-11-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES TYPE	SIZE	LENGTH	BOTTOM CHORD TWO ANGLES TYPE	SIZE	LENGTH	WEB A TYPE	SIZE	LENGTH	WEB B TYPE	SIZE	LENGTH
C32725-1	A242	2"x1½"x.25	35'-8"	A242	2"x1½"x.25	35'-8"	A242	2"x1½"x.25	40'-11"	A242	2"x1½"x.25	40'-11"

TRUSS DESIGNATION	END	TYPE STEEL	CHORD SIZE	LENGTH
C32725-1	E	A242	2"x1½"x.25	10'-8"

TRUSS DESIGNATION	END	BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	DIAG TYPE STEEL	SIZE	LENGTH	WEB TYPE STEEL	SIZE	LENGTH
C32725-1	CORE END	A242	2"x1½"x.25	12'-8¾"	A242	5/8"	4'-4"	A242	5/8"	4'-4"

SPEC. PLATES (2 REQ'D) | REINF. ANGLE 12 REQ'D

MK	TYPE STEEL	SIZE	LGTH	MK	TYPE STEEL	SIZE	LGTH
P12	A36	½"	7"	RA3	A242	2"x1½"x.25	7½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

[illegible] = 35'-8" OVERALL SEE NOTE NO. 2
[illegible] TOWERS A & B

FABRICATED AT LEHIGH STEEL COMPANY

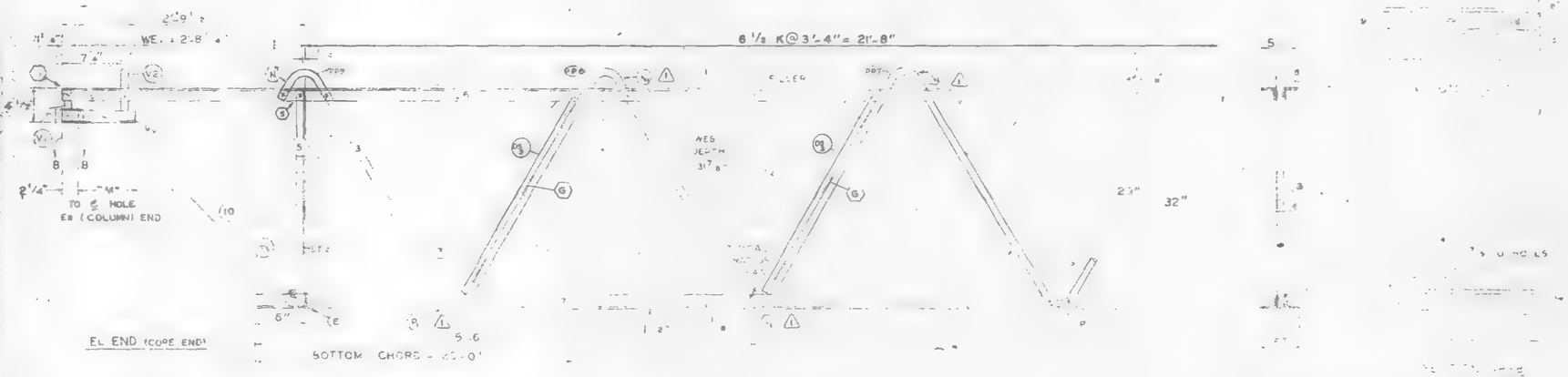
DESIGN DRAWING NO.	7-A81-23
DRAWN BY	B.A.
DATE	SEPT 23, 1968
CHECKED BY	T.M.C.-R.D.
DATE	SEPT 24, 1968
FABRICATION CONT NO.	221

James Whyte 11/13/69

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (BWS).
ALL WELD DETAILS SHOWN ON SHEETS ST290,
291, 292, 293 & ST1.83.
SEE SHEET ST2.18 FOR VII & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST238.
LETTERS IN HEXAGON INDICATE WELD DETAIL (A)
LETTERS & NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM. (P2)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 1/8"	±1/8"
TRUSS DEPTH	32"	±1/8"
SQUARE	0'-0"	1/4"
OVERALL LENGTH	32'-8"	±1/8"
WEB DEPTH	31 7/8"	±1/8"
CL DIMENSIONS		±1/8"

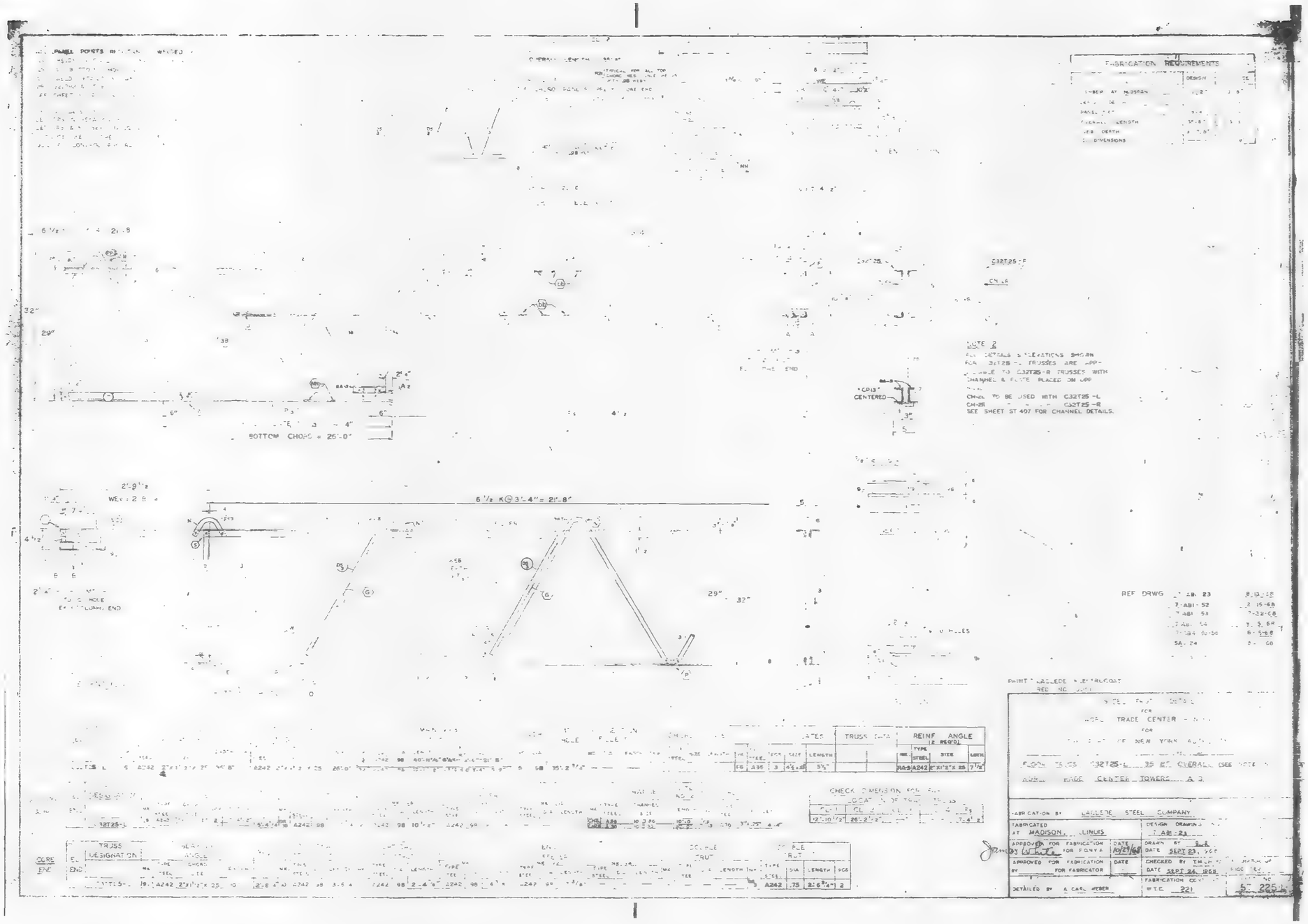


NO.	DATE	REVISION	BY
1	11-7-68	WELD DETAILS, REF DRWG.	P.D.C.

1 REF. DRWG. 7-ABI-23 10-4-68
7-ABI-24 2-15-68
7-ABI-25 7-22-68
7-ABI-26 10-4-68
7-ABI-27 BASE 10-4-68
SA-124 10-11-68

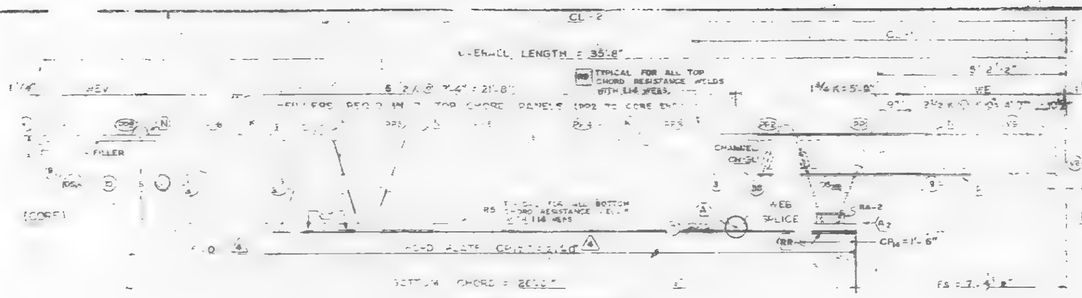
TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"							FILLER PLATES				TRUSS CAMBER	REINF ANGLE (2 REQ'D)			
	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO OF SEC	SEC NOTE		MK	TYPE STEEL	PCS	SIZE	LENGTH		MK	TYPE ST'L	SIZE	LGTH
C32T25-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	26'-0"	38	A242	.98	40'-11 1/4"	6	6@3'-4"=21'-8"		3	A242	3	1 1/4"x.25	5'-4"		RA3	A242	2"x1 1/2"x.25	7 1/2"

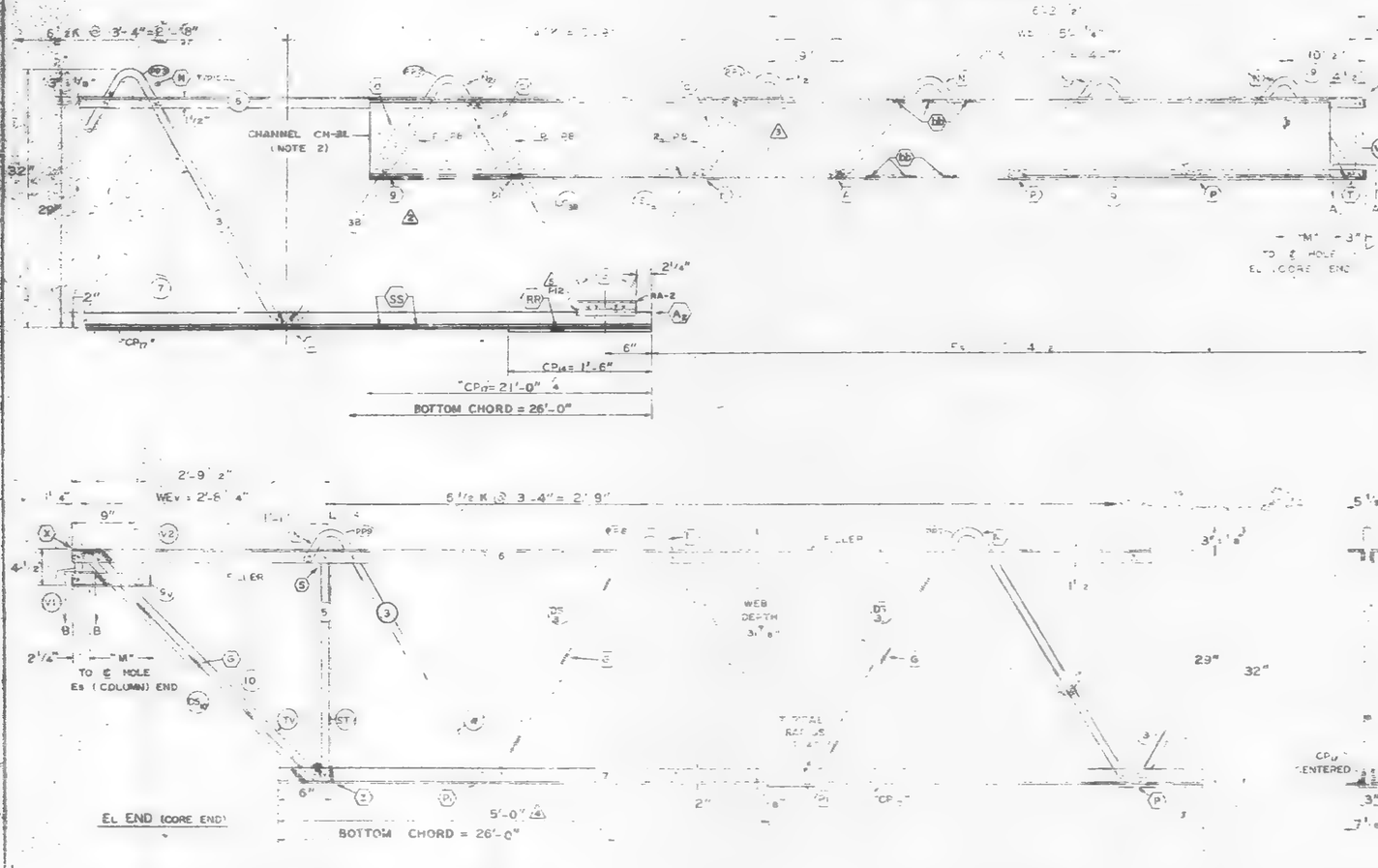
| TRUSS DESIGNATION | TOP CHORD | | | | | | | | BOTTOM CHORD | | | | | | | | MAIN WEB "W" | | | | | | | | | | | | | | | | FILLER PLATES | | | | | | | | | | | | | | | |


6 1/2 K @ 3'-4" = 21'-8"
BOTTOM CHORD = 26'-0"
32"
29"
NOTE 2
SEE SHEET ST 407 FOR CHANNEL DETAILS.
FABRICATION REQUIREMENTS
REF DRWG
STEEL TRUSS DETAIL
FOR
TRADE CENTER
FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING
DETAILED BY A. CARL WEBER
WTC 221
ST 225

ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (WB).
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST248.
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST285
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.





NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R, C32T26LX & C32T26RX TRUSSES, AS NOTED

CHANNEL	TO BE USED WITH
CH3L	C32T26-L
CH3R	C32T26-R

SEE ST405 FOR CHANNEL DETAILS

NO	DATE	REVISION
4		AS NOTED
3		AS NOTED
2	7-88	AS NOTED
1		AS NOTED

4 REF. DRWG. 2-AB-L1

PAINT: LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				WEB "W"				FILLER & HOLE	SPEC. PLATES (2 REQ'D)			CHORD PLATE		CHANNEL PLATES				CHANNEL	ANGLE	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF HOLES SEE NOTE 1	MK	TYPE STEEL	SIZE	LGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	LENGTH		
C32T26-L	6	A242	2"x 1/2 x 33	35'-0"	7	A36	5" x 2" x .33	26'-0"	9B	A242	1.16	40'-11 1/4"	10 1/2 x 3'-4" = 35'-0"	7	1.14	35'-2 3/4"	P12	A36	1" x 9"	7'-1"	P8	A36	3" x 1/4	21'-0"	P8	A36	3	4" x 3/8"	35'-0"			

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES POS	BEARING ANGLES LENGTH	W.E. MK	DOUBLE STRUT TYPE	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH	DOUBLE STRUT POS	END STIFFENER MK	END STIFFENER TYPE STEEL	END STIFFENER DIA	END STIFFENER LENGTH	END STIFFENER WIDTH
		C32T26-L	6	A242	2"x1/2"x 25	10"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	2	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	W.E.	DIAGONAL "W" STRUT MK	DIAGONAL "W" STRUT TYPE STEEL	DIAGONAL "W" STRUT DIA	DIAGONAL "W" STRUT LENGTH	VERTICAL "W" STRUT MK	VERTICAL "W" STRUT TYPE STEEL	VERTICAL "W" STRUT DIA	VERTICAL "W" STRUT LENGTH	STIFFEE MK	STIFFEE TYPE STEEL	DOUBLE STRUT MK	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH	DOUBLE STRUT MK
		C32T26-L	9V	A242	2"x1/2"x 25	10"	2'-8 1/4"	10	A242	1.14	3'-6 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8	A242	1.14	7 5/8"	DS	A242	.92	2'-6 3/4"	2	A242	.92	3'-6 1/4"	DS 10

REINF ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH
R2	A36	3" x 2" x .38"	7 1/2"

CHECK DIMENSION FOR FAB. LOCATION OF TRANSV. TRUSS

CL-1	CL-2	CL-3	CL-4	Es
12'-10 1/2"	26'-2 1/2"			7'-6 1/2"

CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH	NOTE NO 2 MK	CHORD PLATE TYPE STEEL	CHORD PLATE SIZE	CHORD PLATE LENGTH
CH3L	A36	10	35'-0"	10	A36	3/8" x 17"	17'-6"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE 4)
WORLD TRADE CENTER TOWER 1 & 2

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	
LACLEDE STEEL CO.		

DETAILED BY A. CARR

FABRICATION REQUIREMENTS

CL DIMENSIONS

TYPICAL FOR ALL TOP CHORD RESISTANCE WELDS WITH L1/4 WELD.

FILLERS REQ'D IN 7 TOP CHORD PANELS (PP2 TO CORE END)

TYPICAL FOR ALL BOTTOM CHORD RESISTANCE WELDS WITH L1/4 WELD.

E. END (CORE END)

E. END (COLUMN)

CHORD PLATE "CP17" = 21'-0"

BOTTOM CHORD = 26'-0"

TRUSS ELEVATION

CHANNEL CH-3L (NOTE 2)

"CP17"

BOTTOM CHORD = 26'-0"

"M" TO ℄ HOLE E. (CORE) END

SECTION A-A

SECTION B-B

NOTE: DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R, C32T26LX & C32T26RX TRUSSES, AS NOTED.

CHANNEL CH-3L TO BE USED WITH C32T26LX
" CH-3L " " " C32T26L
" CH-2R " " " C32T26R
" CH-3R " " " C32T26RX

SEE ST 407 FOR CHANNEL DETAILS

NO	DATE	REVISION	BY
4	12-4-68	AS NOTED	G.
3	11-14-68	AS NOTED	
2	11-7-68	AS NOTED	
1	10-31-68	AS NOTED	LW.

REF. DRWG.

7-ABI-23	10-4-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	11-25-68
7-64-53-56	10-4-68
SA-124	10-14-68

PAINT: LACLEDE ELECTROCOAT RED NO. 10301

TRUSS DESIGNATION	TOP CHORD TWO ANGLES			BOTTOM CHORD TWO ANGLES				MAIN WEB "W"							FILLER	"M" TO ℄ HOLE	COLLECTOR FILLERS				HORIZ PLATE			CHANNEL PLATES				CHANNEL / ANGLE				TRUSS DATA	
	MK	TYPE STEEL	SIZE	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO OF SEE NOTE			NO	DIA	NO				MK	TYPE STEEL	SIZE	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
C32T26-L	6	A242	2"x1½"x.37	35-8"	7	A36	3"x 2"x .33	26'-0"	9V	A242	L1/4	60-11¼"	9½	X	3'-4"	21'-8"	7	L1/4	35-2¾"	CP17	A36	3"x¾"	21'-0"	PB	A36	3	4½"x⅜"	5'-6½"	C-3	A36	3"x2"x¼"	3'-6"		

COLUMN END	SA	DESIGNATION	WEB TYPE	WEB MK	WEB STEEL	WEB SIZE	WEB LENGTH	END PLATE MK	END PLATE STEEL	END PLATE SIZE	END PLATE LENGTH	END STIFFENER MK	END STIFFENER STEEL	END STIFFENER SIZE	END STIFFENER LENGTH	END STIFFENER PCS	DS	HORIZ PLATE MK	HORIZ PLATE STEEL	HORIZ PLATE SIZE	HORIZ PLATE LENGTH	CHECK DIMENSION FOR FABRICATION OF TRUSS	
		C32T26-L	9	A242	2"x1½"x.25	10'-4½"	2	10	A242	2'-8¼"x10	5'-6¼"	38	A242	L1/4	2'-6¾"	2	A242	L1/4	10½"	8'-3⅞"	CP	A36	10"x⅜"	10'-0"	14	A36	2"x⅜"	1'-6"	12'-10½"	20'-2½"	7¼"	½"

DOUBLE STRUT									DOUBLE STRUT				REINF ANGLES (2 REQ'D)			
									TYPE STEEL	DIA.	LENGTH	MK.	MK.	TYPE STEEL	SIZE	LENGTH
C32T26-L	9V	A242	2"x1½"x.25	10"	2'-8¼"x10	A242	L1/4	3'-6½"	5	A242	L1/4	2'-4⅞"	A242	4	4"	A242	L1/4	⅜"	9	A242	82	2'-6¾"	2	A242	92	3'-6½"	DS 10	A242	83	2"x2"x.25"	1'-1½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

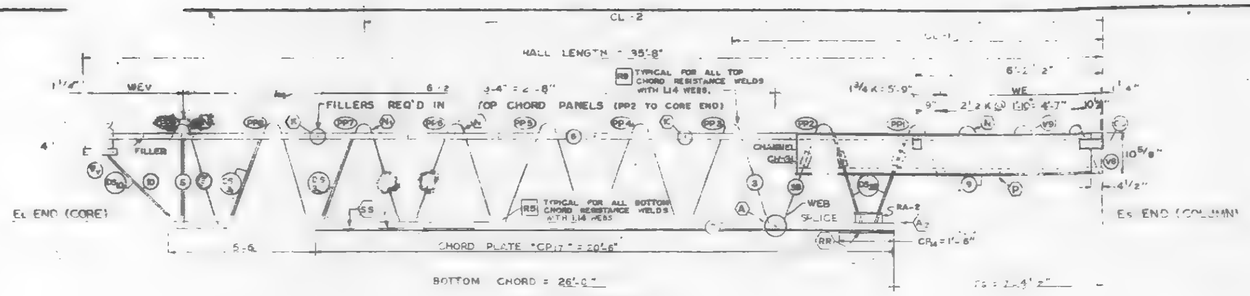
FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO.2)
WORLD TRADE CENTER TOWERS A B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT WADISON, ILLINOIS
DESIGN DRAWING NO 7-ABI-23
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 12/16/68
DRAWN BY [illegible] DATE SEPT. 23, 1968
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE
CHECKED BY [illegible] DATE SEPT 23, 1968
FABRICATION

ST 226-L

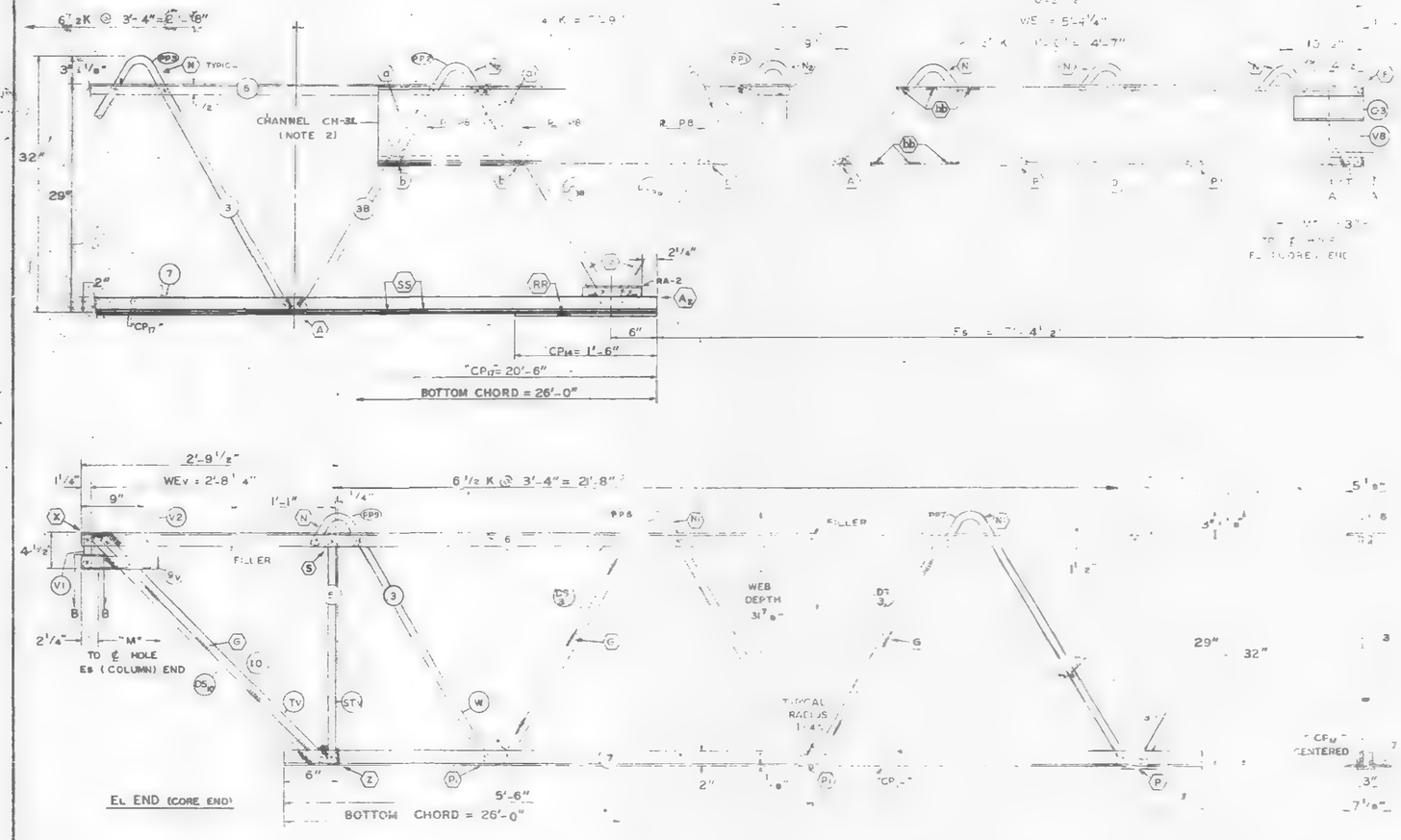
ALL PANEL POINTS RESISTANCE WELDED (X).
SHOP WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (mm).
ALL WELD DETAILS SHOWN ON SHEETS ST280, ST282, 283 & ST285.
SEE SHEET ST286 FOR V1 & V2

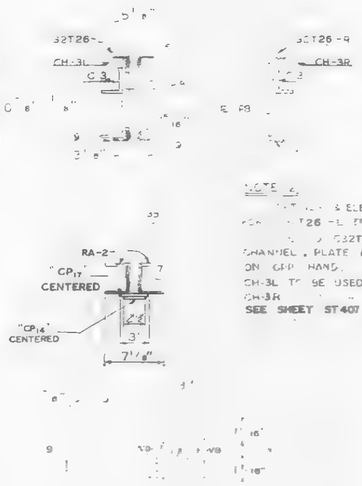
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., RS



TRUSS ELEVATION

FABRICATION REQUIREME..		
	SIGN	TUAL
CAMBER AT MIDSPAN	7/8"	3/4"
DESIGN DEPTH	29"	28 3/4"
PANEL "E"	3'-4"	± 1/4"
OVERALL LENGTH	35'-8"	± 1/8"
WEB DEPTH	= 7/8"	± 1/4"
CL DIMENSIONS	—	± 1/16"





NOTE 2
ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R TRUSSES WITH CHANNEL, PLATE & ANGLE CONFIG PLACED ON OPP HAND.
CH-3L TO BE USED WITH C32T26-L
CH-3R " " " C32T26-R
SEE SHEET ST407 FOR CHANNEL DETAILS.

NO	DATE	REVISION	BY
1	10-31-68	AS NOTED	LWH.

REF DRWG.

7-ABI-23	8-13-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	8-15-68
7-ABI-53-56	8-15-68
SA-124	8-1-68

PAINT LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO OF "W" SEE NOTE 1	FILLER NO.	FILLER DIA.	"M" C. HOLE	CONNECTION FILLERS NO.	CONNECTION FILLERS LENGTH
C32T26-L	6	A242	2"x1 1/2"x.187	35'-8"	7	A36	3"x 2"x .33	26'-0"	5	A242	L14	40'-11 3/4"	12 W's K=3'-4"=29'-8"	7	L14	35'-2 3/4"		
									6	A242	L14	10'-7 5/8"	3 W's K=3'-4"=9'-8"					

TRUSS DESIGNATION	CHORD PLATE TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	ANGLE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	
C32T26-L	A36	3"x 1/2"	20'-6"	P8	A36	3	4 1/2"x3/8"	3'-1/2"	C-3	A36	3"x2"x 1/2"	3'-6"		

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATES MK.	TYPE STEEL	SIZE	LENGTH
		C32T26-L	9	A242	8"x1"x.25	2	10"	5'-4 1/4"	DS 8	A242	L14	2'-6 3/4"	2	A242	L14	10 1/2"	A242	L14	8'-3 7/8"				CH-3L	A36	10.2 30	10'-8"	CP 14	A36	2"x1/4"	1'-6"

CHECK DIMENSION FOR FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-6 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	DOUBLE STRUT TYPE STEEL	DIA	LENGTH	MK.
		C32T26-L	9V	A242	2"x1½"x.25	10"	2'-8 1/4"	10	A242	L14	3'-6 1/4"	5	A242	L14	2'-4 7/8"	A242	L14	4 3/8"	A242	L14	7 3/8"	—	—	—	—	DS 3	A242	.92	2'-6 3/4"	2	A242	.92	3'-6 1/4"	DS 10

REINF ANGLES (2 REQ'D) MK.	TYPE STEEL	SIZE	LENGTH
RA-2	A36	3"x3"x.375	7 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO.2)

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-ABI-23

PLATE

APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 11/7/68

DRAWN BY [illegible] DATE SEPT. 23, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY: T.M.CHURA DATE SEPT. 24, 1968

IN CHARGE OF PROD. DEV.

DETAILED BY: CARL WEBER

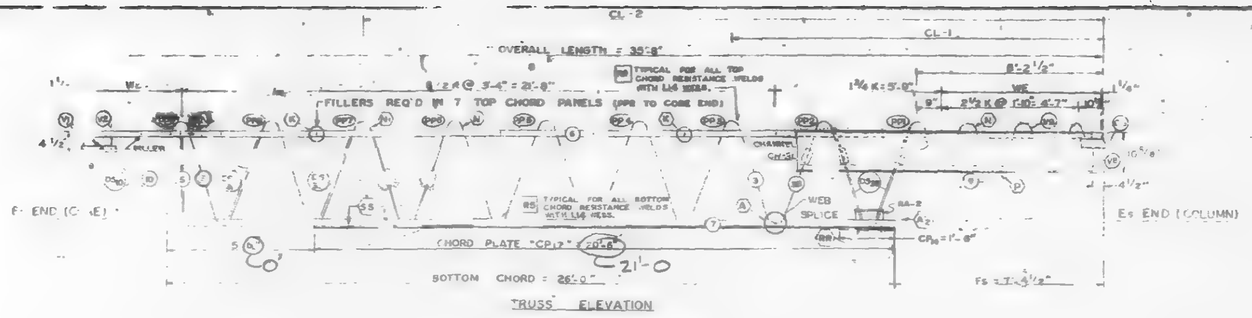
W.T.C. 221

FABRICATOR CONT. NO.

SHEET NO. ST 226-L

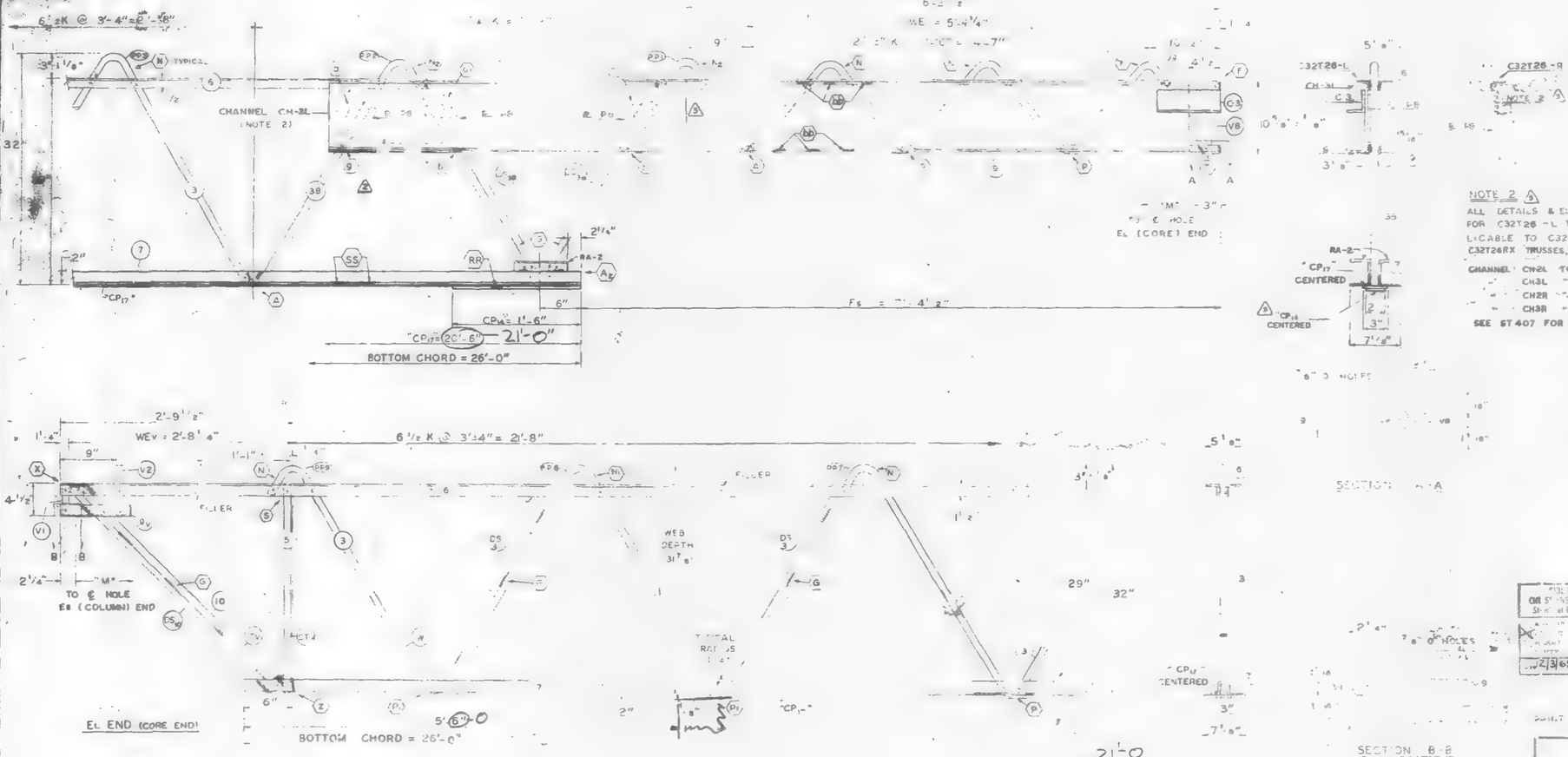
POINTS RESISTANCE WELDED (⊠).
INDICATED AT SHADED AREAS
FOR CHORD WEB SPLICES (RR).
DETAILS SHOWN ON SHEETS ST200,
& ST205.
ST203 FOR V1 & V2

DETAILS SHOWN ON SHEET ST203
LETTERS IN HEXAGON INDICATE WELD DETAIL (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. RS



"TRUSS" ELEVATION

FABRICATION REQUIREMENTS	DESIGN
CAMBER AT MIDSPAN	2 7/8"
DESIGN DEPTH	8'-0"
PANEL "K"	2'-1 1/4"
OVERALL LENGTH	35'-8" ± 2 3/8"
WEB DEPTH	2'-7 7/8" ± 1/4"
C to C DIMENSIONS	25'-3" ± 3/8"



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R, C32T26LX & C32T26RX TRUSSES, AS NOTED:

CHANNEL		
CH2L	TO BE USED WITH	C32T26LX
CH3L	" " "	C32T26L
CH2R	" " "	C32T26R
CH3R	" " "	C32T26RX

SEE ST407 FOR CHANNEL DETAILS

NO	DATE	REVISION	BY
5	11-14-68	AS NOTED	LWH
4	11-7-68	AS NOTED	LWH
1	10-31-68	AS NOTED	LWH

REF DRWG.

7-ABI-23	10-4-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	10-4-68
7-AB4-53-56	10-4-68
SA-124	10-14-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	BOTTOM CHORD TWO ANGLES TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO OF PCS (SEE NOTE 1)	FILLER MK	NO	DIA.	"M" ℄ HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH
C32T26-L	6	A242	2"x1 1/2"x 3/8"	35'-8"	7	A36	3"x 2" x .93	26'-0"	5	A242	1 1/4	40'-11 1/4"	10 1/2 x 4"x 3/8"-6'-0"	7	1	1 1/4	6			
									55	A242	1 1/4	10'-7 5/8"	13/16 x 8"x 3/4"-3'-4"							

TRUSS DESIGNATION	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	CHANNEL - ANGLE MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	
C32T26-L	CP17	A36	3/4"	20'-6"	P8	A36	3	4 1/2 x 3/8	3'-0"	C-3	A36	3"x2"x 1/4	9"		

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DIAGONAL TYP STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK	TYPE STEEL	DIA	LENGTH	CHANNEL NOTE NO. 2 MK	CHANNEL SIZE	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
		C32T26-L	6	A242	6"x3 1/2"x 5/8"	2	10'-4 1/2"	5'-4 1/4"	DS 38	A242	1 1/4	2'-6 3/4" 2	A242	1 1/4	10 1/2"	A242	1 1/4	8'-3 3/8"	CH3L	A36	10 3/8"	10'-6"	14	A36	8"x 3/8"	1'-6"

CHECK DIMENSION FOR FAB. LOCATION OF TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"			7'-4 1/2"

CORE END	Ec END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DIAGONAL TYP STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL STY STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS	DOUBLE STRUT TYPE STEEL	DIA	LENGTH	MK
		C32T26-L	9V	A242	2"x1 1/2"x 25	10"	2'-8 1/4"	10	A242	1 1/4	3'-6 1/4"	5	A242	1 1/4	2'-6 7/8"	A242	U4	4 3/8"	A242	1 1/4	7 3/8"	—	—	—	DS 3	A242	.92	2'-6 3/4"	2	A242	.92	3'-8 1/4"	DS 10

REINF ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH
RA-2	A36	2 3/4"x 2 3/4"x 3/8"	7'-1/2"

5	11-14-68	AS NOTED
4	11-7-68	AS NOTED
1	10-31-68	AS NOTED
NO	DATE	REVISION

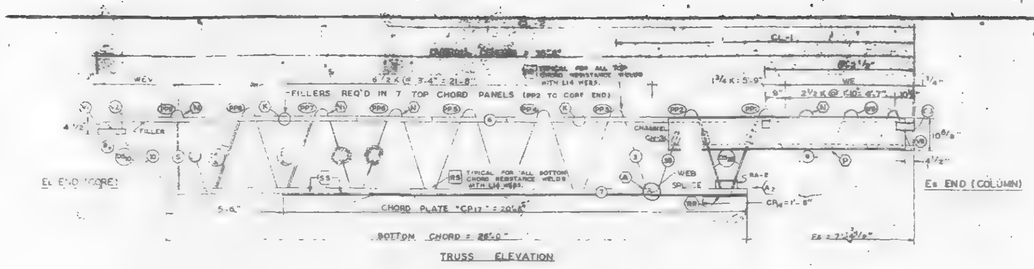
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
&
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO.2)
WORLD TRADE CENTER TOWERS A-B

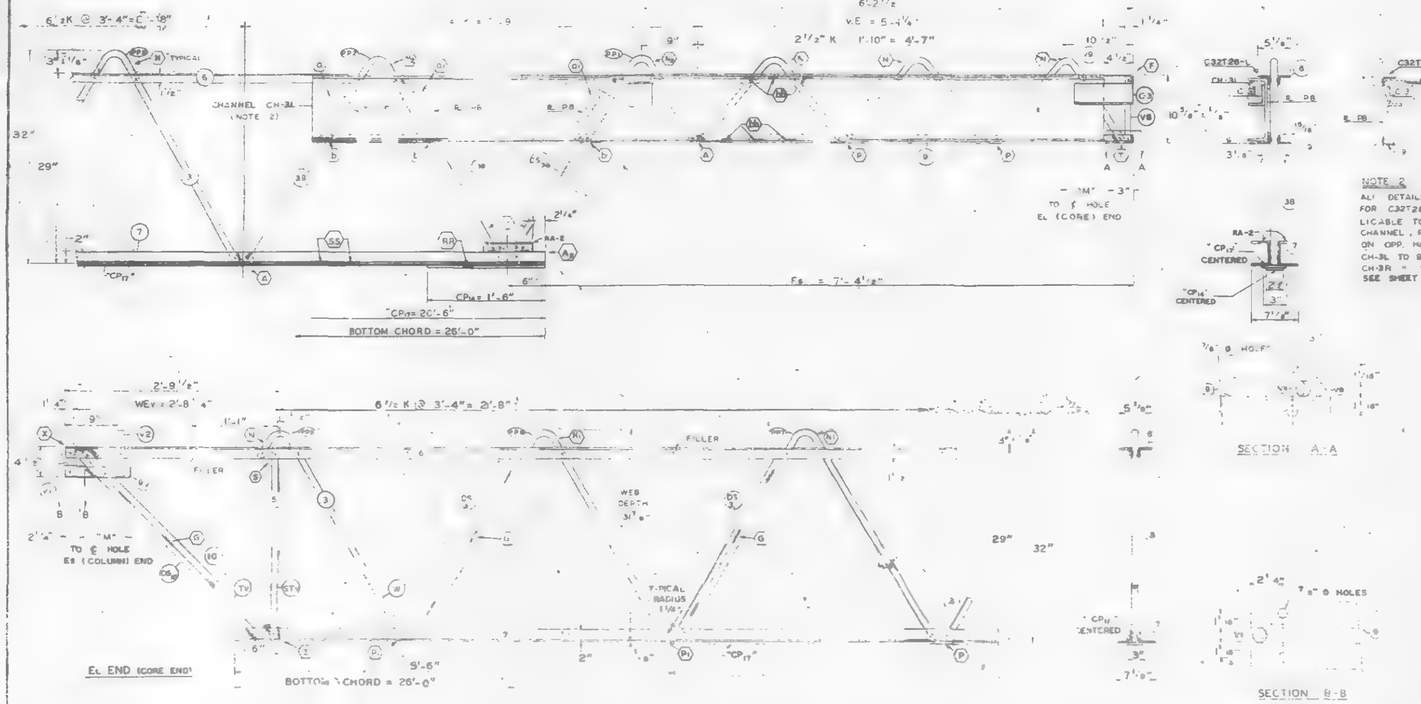
FABRICATION BY WEEDE STEEL & IRON CO.
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A. DATE _____
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR DATE _____
DETAILED BY A. CARLSEN
DESIGN DRAWING NO. 7-ABI-23
DRAWN BY L.S. DATE SEPT. 24, 1968
CHECKED BY: T.M. CHURA DATE SEPT. 24, 1968
FABRICATION CONT NO. W.T.C. 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO. ST 226

ALL WELDS ARE RESISTANCE WELDED (RW).
ARC WELDING IS USED AT SHADED AREAS
ALL FIELD SPLICES ARE BOLTED WEB SPLICES (MW).
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST284
LETTERS IN HEXAGON INDICATE WELD SYMBOL (2)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, FIG. 6A



TRUSS ELEVATION



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R TRUSSES WITH CHANNEL, PLATE & ANGLE SIZES PLACED ON OPP. HAND.
CH-3L TO BE USED WITH C32T26-L
CH-3R " " " " C32T26-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "E"	3'-4"	± 1/4"
OVERALL LENGTH	25'-8"	3/8"
WEB DEPTH	31 7/8"	± 1/4"
CL DIMENSIONS		± 1"

REF. DRWG.

7-AB1-23		9-18-68
7-AB1-52		2-15-68
7-AB1-53		7-22-68
7-AB1-54		8-15-68
7-284-53-56		8-5-68
SA-124		8-1-68

PAINT : LACLEDE ELECTROCOAT
MED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLE	CONNECTION FILLERS		CHORD PLATE		CHANNEL PLATES				CHANNEL ANGLE			TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF "W" (SEE NOTE 1)	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	-
C32T26-L	16	A242	2"x8 1/8"x.36	35'-6"	7	A36	3"x 2"x .35	26'-0"	39	A242	1/8	10'-7 7/8"	13/A 2/B	7	1/4	35	3/4	2'-3 3/4"	CP17	A36	3"x1/2"	20'-6"	P8	A36	3	4"x2 1/2"	35'-6"	C-3	A36	3"x2-1/2"x.31	3'-6"±8"	

TRUSS DESIGNATION	TOP CHORD				BOTTOM CHORD				END STIFFENER								CHANNEL NOTE NO. 2		CHORD PLATE			CHECK DIMENSION FOR FAB LOCATION OF TRANS TRUSS				
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. V2	MK	TYPE STEEL	DIA	LENGTH	NO. V3	MK	TYPE STEEL	CHANNEL SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	CL-1	CL-2	CL-3	CL-4	Fs
C32T26-L	9	A242	2"x1"x.25 2	15'-4 1/2"	2	A242	2"x1 1/2"x.28	5'-8 1/4"	38	A242	1 1/4	2'-8 3/8"	2	A242	1 1/4	10 1/8"	2	A242	1 1/4	8'-3 7/8"	2	C15x33.9	10'-2"	10'-8"	1/2	A36	1"x4 1/2"	1'-6"	12'-10 1/2"	26'-2 1/2"			7'-6 1/2"

TRUSS DESIGNATION	DIAGONAL STRUT					VERTICAL STRUT				END STIFFENER							DOUBLE STRUT						DOUBLE STRUT						REINF ANGLES (2 REQ'D)			
	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. V1	MK	TYPE STEEL	DIA	LENGTH	NO. V2	MK	TYPE STEEL	DIA	LENGTH	NO. V3	MK	TYPE STEEL	DIA	LENGTH	PCS	MK	TYPE STEEL	SIZE	LENGTH
C32T26-L	10V	A242	2"x1 1/2"x.25	10"	2	A242	1 1/4	2'-8 1/4"	10	A242	1 1/4	3'-6 1/4"	5	A242	1 1/4	2'-4 7/8"	2	A242	1 1/4	4 3/8"	A242	1 1/4	7 3/8"	—	—	—	—	—	08	A242	.92	2'-8 3/4"	12	A242	.92	3'-6 1/4"	08	REAR	A36	3"x3"x.44	7 1/2"

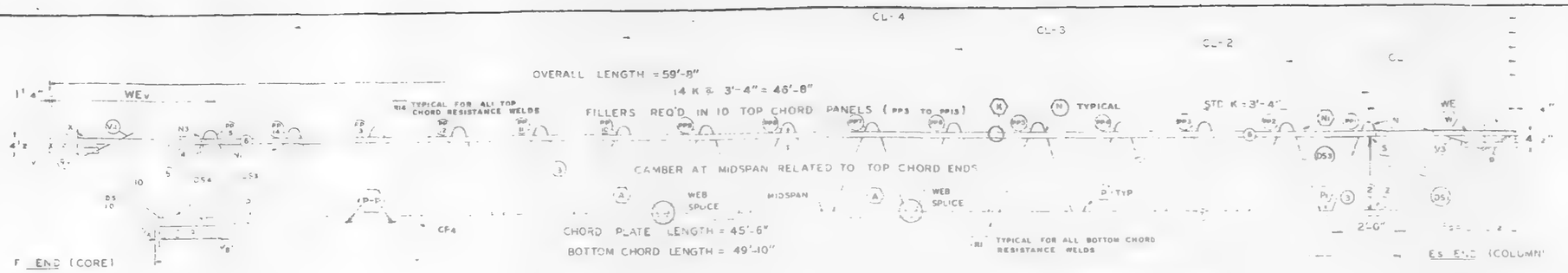
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: _____ DATE _____ FOR P.D.N.Y.A.
APPROVED FOR FABRICATION BY: _____ DATE _____ FOR FABRICATION
DETAILED BY: "L" CORE WEBS

DESIGNED DRAWING NO 7-AB1-23
DRAWN BY [illegible] DATE SEPT 23, 1968
CHECKED BY J.H. HUBZ DATE SEPT 24, 1968
FABRICATION NO. [illegible] DATE [illegible]

ST 226-L

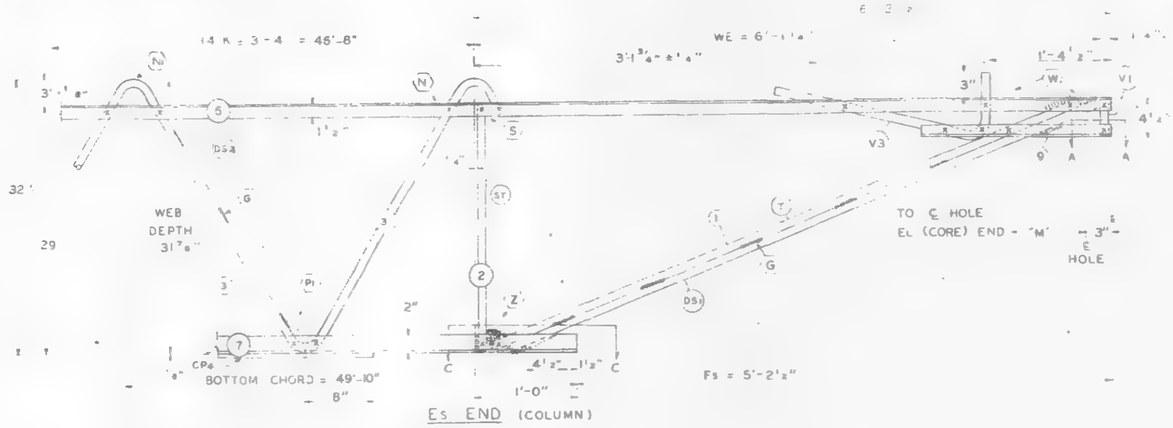
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26 - 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A & B



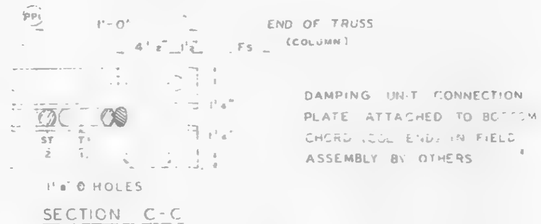
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1 1/4"
PANEL "K"	3'-4"	± 1 1/4"
OVERALL LENGTH	59'-8"	± 3 /8"
WEB DEPTH	31 7/8"	± 1/4"

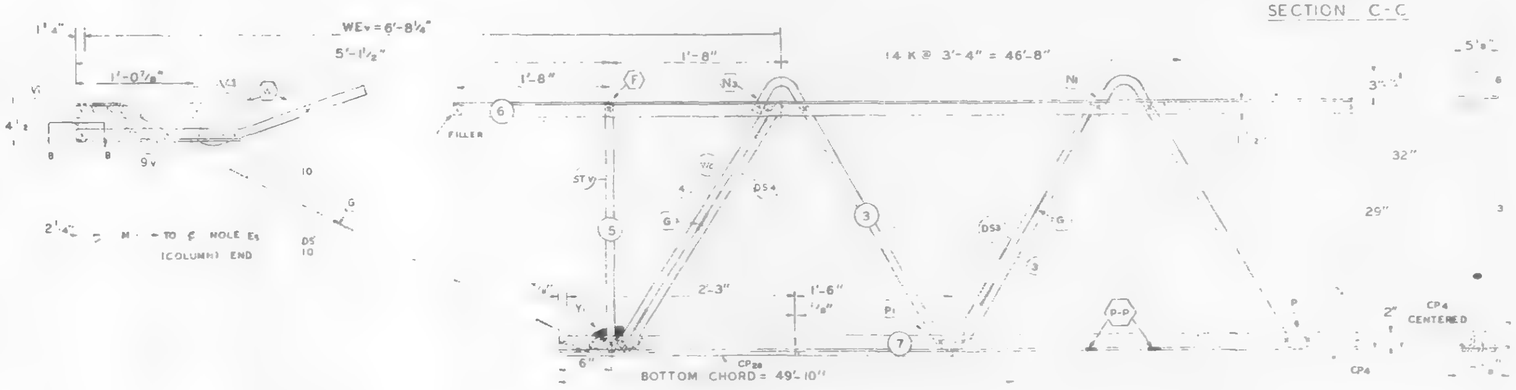


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS TO BE USED
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM



SECTION C-C



EL END (CORE)

SECTION B-B

NO	DATE	REVISION	BY

REF DRWG

7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
32T27C-598	9	A242	2"x1 1/2"x.37	59'-8"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	59 -2 3/4"	-	-	-	CP4	A36	4"x .375"	45'-6"	CP28	A36	4"x .375"	2'-3"

TRUSS DESIGNATION		BEARING ANGLES			WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
EL END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
32T27C-598	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.75	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE EL END	TRUSS DESIGNATION	MK	BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	32T27C-598	9	A242	2"x1 1/2"x.37	1'-6"	6'-8 1/4"	10	A242	1.14	5'-4 1/8"	5	A242	1.14	2'-4 1/2"	A242	1.14	4 1/2"				A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-	DS4	A242	.75	2'-9 1/2"	DS3	A242	.75	5'-4 1/2"	DS2	A242	.75	2'-6 3/4"

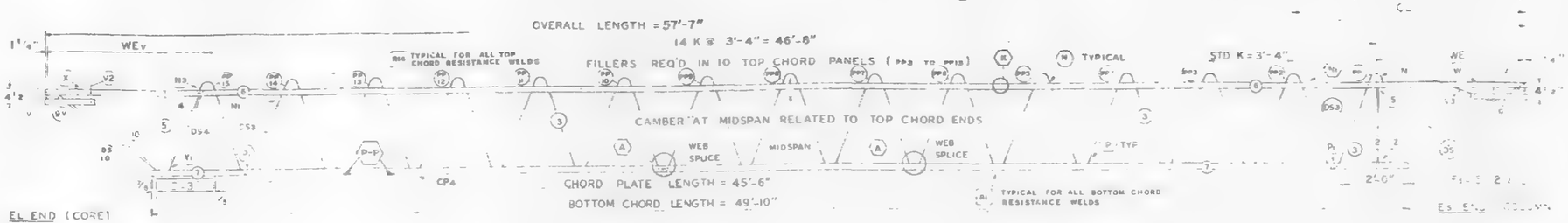
PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

ELOOR TRUSS C32T27... 59'-8" OVERALL...
WORLD TRADE CENTER TOWERS A & B

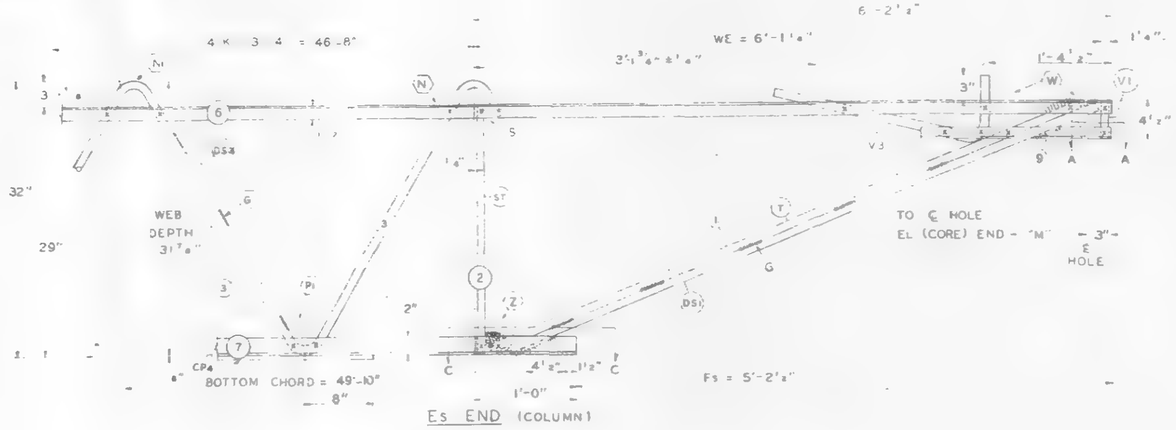
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-24 PLATE
APPROVED FOR FABRICATION BY PONYA FOR FABRICATOR DATE 6/4/69
DRAWN BY L.S. DATE APRIL 17, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.W.CHUBA DATE APRIL 17, 1969 IN CHARGE OF PROD DEV.
DETAILED BY A C WEBER
FABRICATION CONT NO. WTC 221
SHEET NO. ST227C

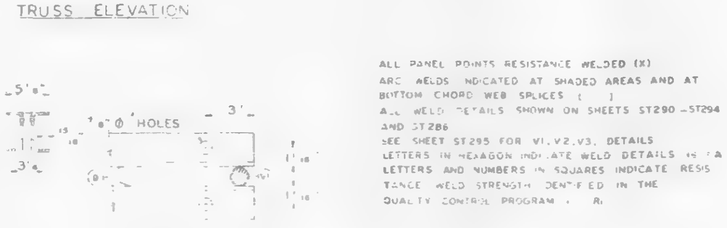
CL-4 CL-3 CL-2



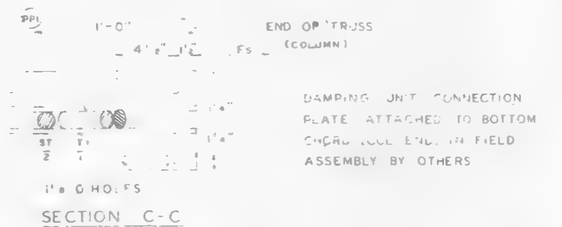
TRUSS ELEVATION

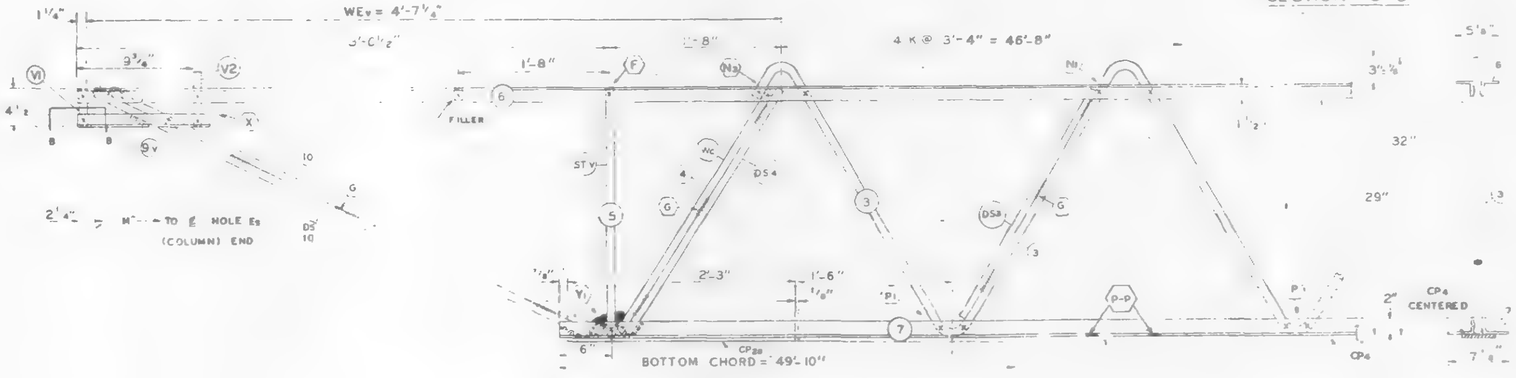
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "M"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS IN FA
LETTERS AND NUMBERS IN SQUARES INDICATE RESIS TANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM .





NO	DATE	REVISION	BY

REF DRWG

7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
REQ NO 10001

TRUSS DESIGNATION		TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K		NO.	DIA.		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T2	577 6	A242	2"x1 1/2"x.31	57'-7"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1/4	14 @ 3'-4" = 46'-8"		11	1.14	57'-1 3/8	—	—	—	CP4	A36	4"x.375"	45'-6"	CP 20	A36	4"x.375"	2'-3"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
ES END	C32T27P 577	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/8"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	75	6'-3 1/8"

CHECK DIMENSION FOR TRUSS F LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER									WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END	C32T27P 577	9	A242	2"x1 1/2"x.37	11'-8"	4'-7 7/8"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8" -	A242	1.14	7 3/8" -	—	—	—	4	A242	1	1.14	2'-6 1/2"	DS4	A242	.75	2'-9 1/8"	DS10	A242	75	3'-7"	DS8	A242	.42 .75	2'-6 3/4"

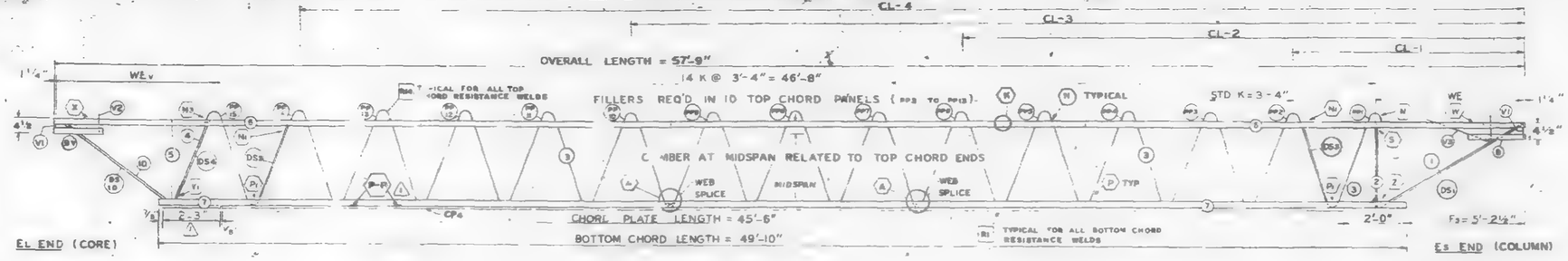
PAINT
LACLEDE ELECTROCOAT
REQ NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

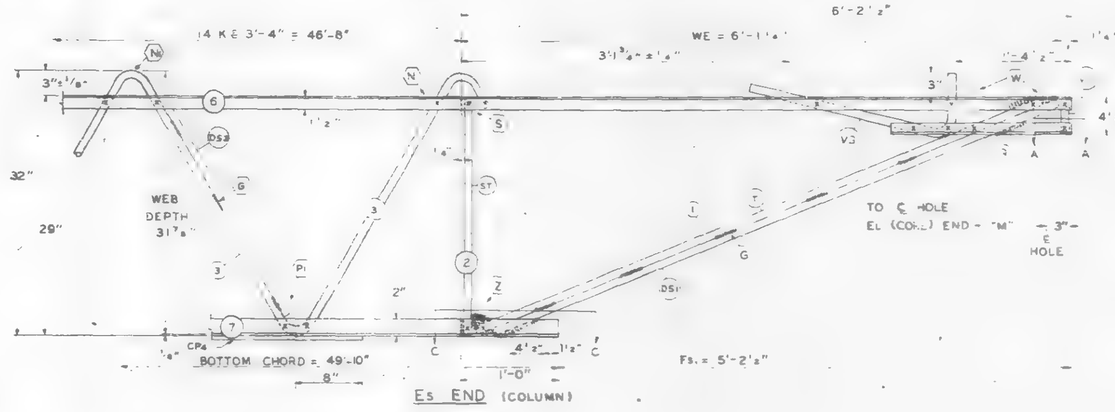
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

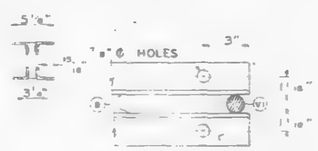
APPROVED FOR FABRICATION FOR PONYA	DATE 6/4/69	DESIGN DRAWING NO 7-AB1-24 PLATE
APPROVED FOR FABRICATION FOR FABRICATOR	DATE	DRAWN BY E.B. DATE APRIL 17, 1969
DETAILED BY A.C. WEBER		CHECKED BY Y.M.CHIBA DATE APRIL 17, 1969
		IN CHARGE OF PROD. DEV.
		FABRICATION CONT NO. W.T.C. 221
		SHEET NO. ST 27P



TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± "
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	29 7/8"	± 1/4"

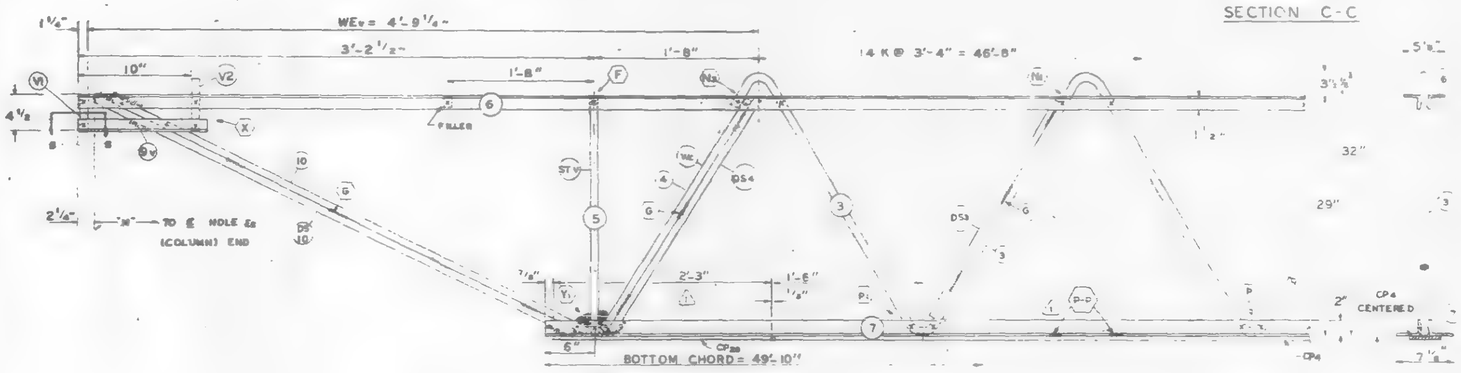




ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND A.
BOTTOM CHORD WEB SPLICES (RB)
ALL WELD DETAILS SHOWN ON SHEETS ST290-ST294 AND ST286 (△)
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)

SECTION C-C

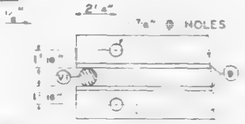
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



NO.	DATE	REVISION	BY
1	2-14-69	AS NOTED	S.D.C.

REF DRWG.

7-ABI-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB-53	7-22-68



PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE △			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T27N 579	6	A242	2"x1 1/2"x 31	57'-9"	7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/8"	—	—	—	CP4	A36	4"x .375"	45'-6"	CP 28	A36	4"x .375"	2'-3"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFF							DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LGTH	MK	TYPE STEEL	DIA	LGTH
		C32T27N-579	9	A242	2"x1 1/2"x .37 △1	2'-3"	6'-1¼"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 5/8"	A242	1.14	4 3/8"	A242	1.14	2'-5"	—	—	—	DS1	A242	.75	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT △				VERTICAL "ST" STRUT				END STIFFENER								WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT △				DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T27N 579	9	A242	2"x1 1/2"x .37 △1	1'-0"	4'-9¼"	10	A242	1.14	3'-8 1/4"	15	A242	1.14	2'-4 5/8"	A242	1.14	4 3/8"	A242	1.14	7 5/8"	—	—	—	4	A242	1	1.14	2'-9 1/2"	DS4	A242	.75	2'-9 1/2"	DS10	A242	75	3'-8 1/4"	DS3	A242	.75	2'-6 3/8"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A. DATE 12-4-69

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE

DETAILED LACLEDE STEEL CO.

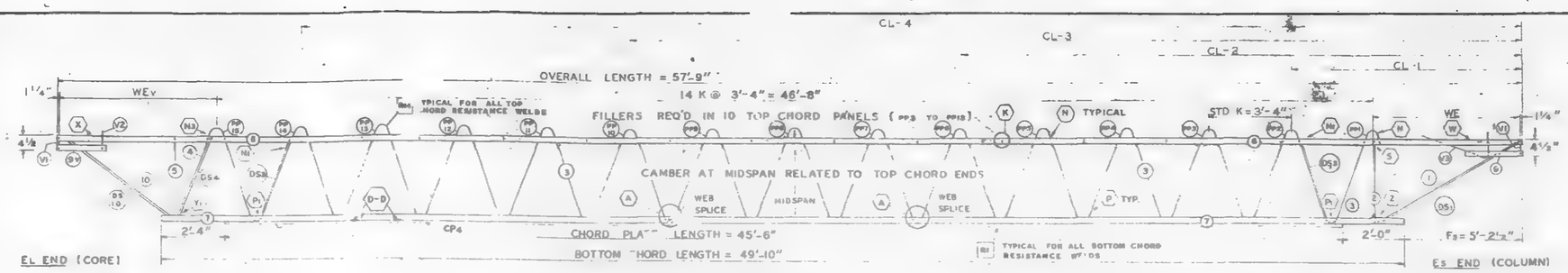
DESIGN DRAWING NO. 7-ABI-24 PLATE

DRAWN BY: S.S. DATE: JAN. 20, 1969

CHECKED BY: T.MCNEIL DATE: JAN. 21, 1969

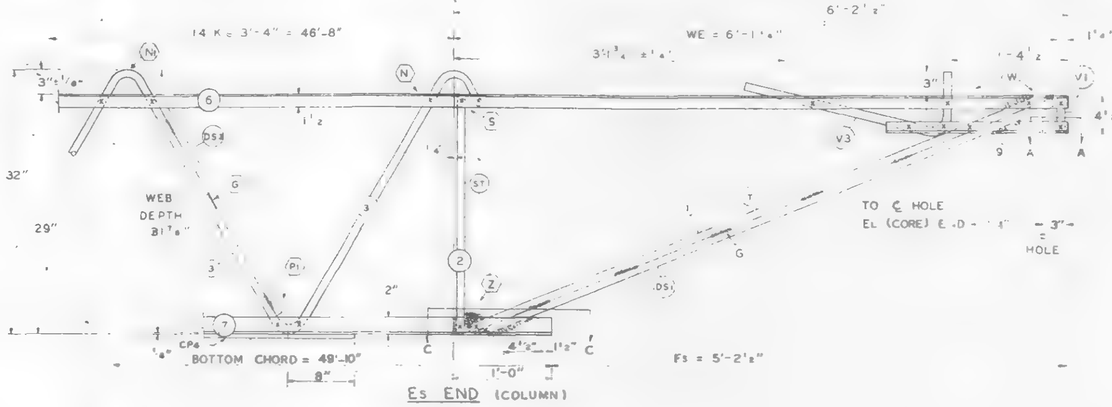
FABRICATION CONT. NO. W.T.C. 221

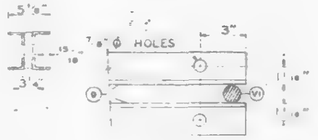
DESIGN NO. ST27N



TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'	± 3/8"
WEB DEPTH	31 7/8"	± 1/4



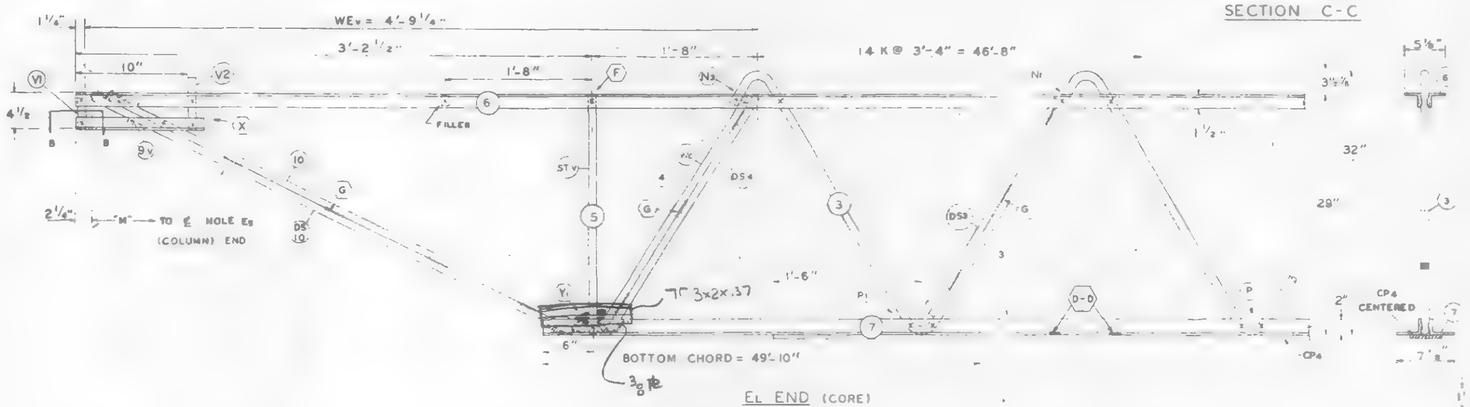


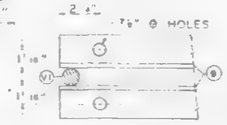
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (IIIIIIII)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST297.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. R1

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.





SECTION B-B

REF DRWG.	
7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA.		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T27N-579	6	A242	2"x1 1/2"x.31	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/2"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/8"	-	-	-	CP4	A36	4"x.375"	45'-8"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T27N-579	9	A242	2"x1 1/2"x.25	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.75	6'-3 1/8"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				E.D STIFFENER MK V1			E.D STIFFENER MK V2			E.D STIFFENER MK V4				WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT (AT TIE GIRD)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T27N 579	9	A242	2"x1 1/2"x.25	2'-0"	4'-9 1/4"	10	A242	1.14	3'-7 3/8"	5	A242	1.14	2'-4 1/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	-	-	-	4	A242	1	1.14	2'-9 1/2"	DS4	A242	.75	2'-9 1/2"	DS10	A242	.75	3'-7 3/8"	DS3	A242	.75	2'-8 3/4"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

SKILLING · HELLE CHRISTIANSEN ROBERTSON
Engineers & Civil Engineers
...2|9|69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: ___ FOR P.O.N.Y.A. DATE ___

APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE ___

DETAILED BY: J.B.E.W.

DESIGN DRAWING NO. 7-AB1-24 PLATE ___

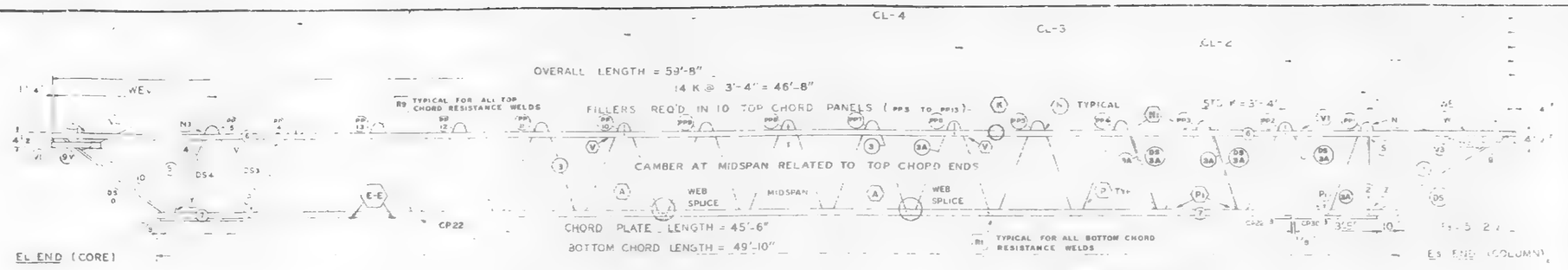
DRAWN BY: R.B. DATE: JAN. 20, 1969

CHECKED BY: T.H.CHIRA DATE: JAN. 21, 1969

IN CHARGE OF PROD. DEV.

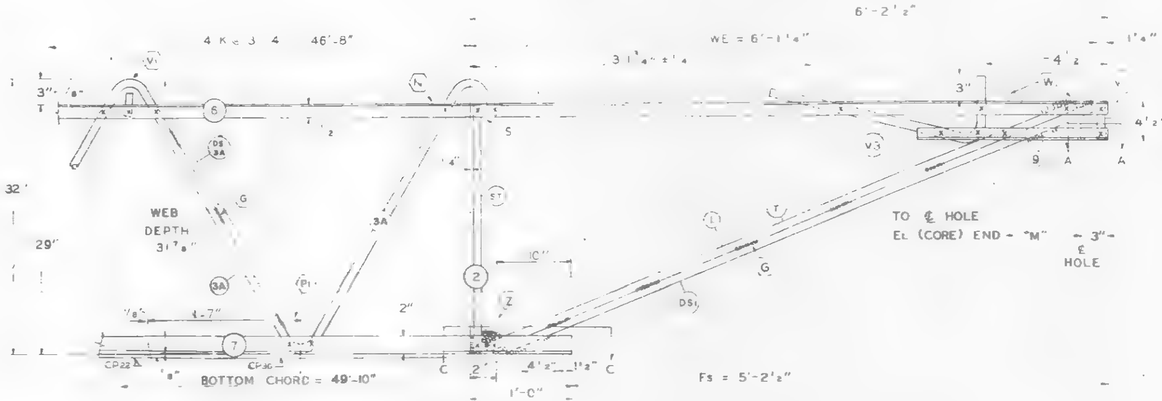
FABRICATION CONT. NO. W.T.C. 221

SHEET NO. ST2,27N



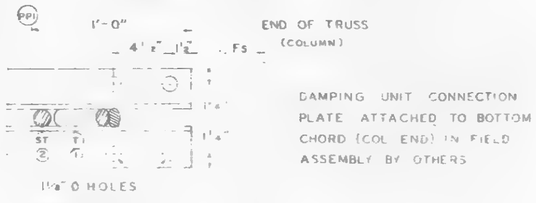
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	15 16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



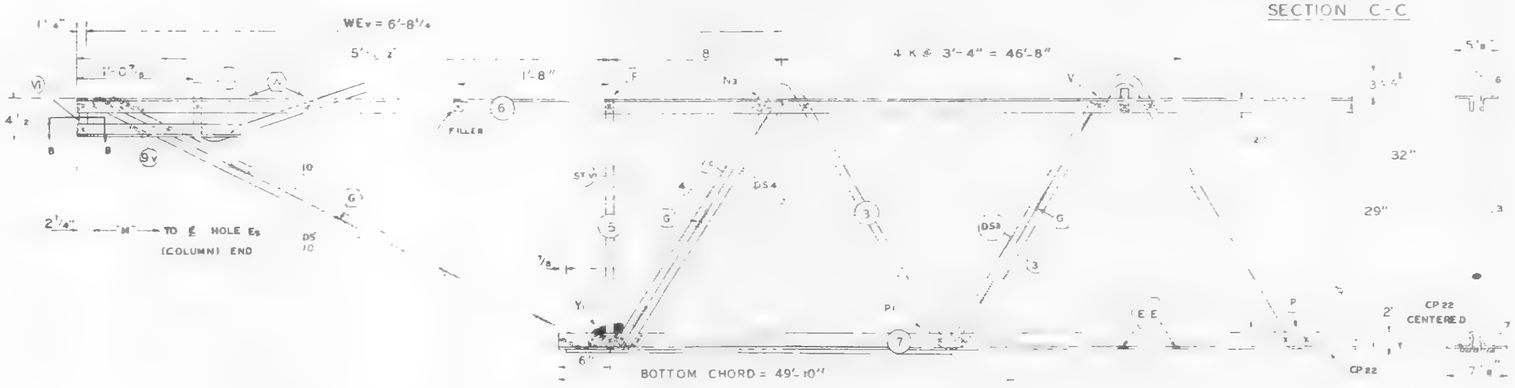
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. P1)



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



EL END (CORE)

SECTION B-B

NO	DATE	REVISION	BY

REF DRWG		
7-AB1-25	1-6-68	
7-AB4-50	8-1-68	
7-AB3-41	1-6-68	
7-AB1-53	7-22-68	

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				(3) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
C32T28C59	9	A242	2"x1 1/2"x .37"	59'-9"	7	A36	3"x2"x .37	49'-10"	3	A242	1.14	59'-4 3/4	8 1/2 K @ 3'-4" = 28'-4"	11	1.14	59'-2 7/8"	4	1.14	3"	CP 22	A36	6 1/2"x.50	45'-6"	DS 3A	A242	.92	2'-6 3/4"
	3A	A242	1.14	34'-8 1/2	5 1/2 K @ 3'-4" = 18'-4"																					

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
	C32T28C59	9	A242	2"x1 1/2"x .37"	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.98	6'-3 1/8"

CHECK DIMENSION FOR TP 35 FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

MK	TYPE STEEL	SIZE	LENGTH
CP 30	A36	6 1/2"x .50	

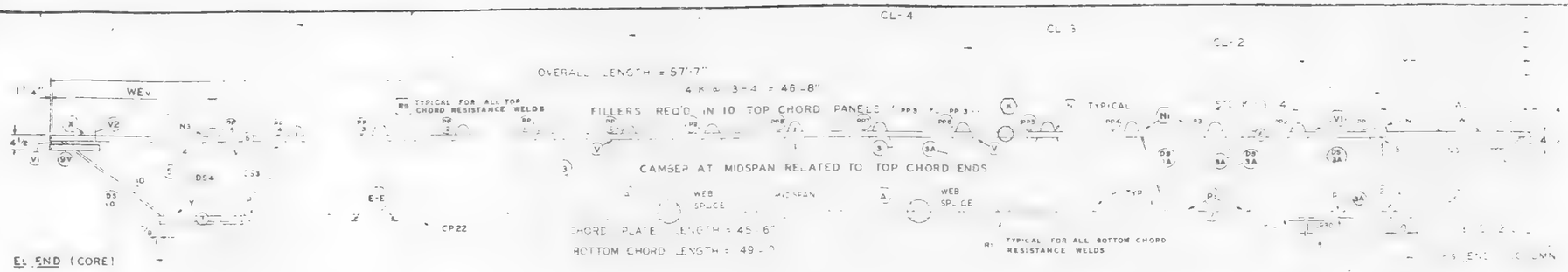
CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "W" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "SV" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T28C59	9	A242	2"x1 1/2"x .37"	1'-6"	6'-8 1/4"	10	A242	1.14	5'-4 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"				A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-9 1/2"	5	A242	.98	2'-9 1/2"	DS 10	A242	.98	5'-4 1/4"	DS 3	A242		2'-6 3/4"

FABRICATION BY	LACLEDE STEEL COMPANY	
FABRICATED AT	MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-25 PLATE
APPROVED FOR FABRICATION BY	DATE FOR PONYA	DRAWN BY: DATE: APRIL 17, 1969
APPROVED FOR FABRICATION BY	DATE FOR FABRICATOR	CHECKED BY: T.M.CHIBA DATE APRIL 17, 1969
DETAILED BY	A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A&B

IN CHARGE OF PROD. DEV.
SHEET NO. ST28C



TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER "M"		CONNECTION FILLERS			CHORD PLATE			(3) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28P57	6	A242	2"x1 1/2"x .37"	57'-7"	7	A36	3"x2"x .37"	49'-10"	3 3A	A242 A242	1.14 1.14	53'-4 3/4 34'-8 1/2	8 1/2 K @ 3'-4" = 28'-4" 5 1/2 K @ 2'-4" = 12'-8"	11	1.14	5'-7 15/16"	4	1.14	3'-0"	CP 22	A36	6 1/2"x.50"	45'-6"	DS 3A	A242	.92	2'-6 3/4"

TRUSS DESIGNATION		BEARING ANGLES				WEv	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER								DOUBLE STRUT			
	END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LG H
C 28P577		9	A242	2"x1 1/2"x.37"	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.98	6'-3 1/8"				

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS
CL-1 CL-2 CL-3 CL-4 Es
9'-6 1/2" 22'-10 1/2" 36'-2 1/2" 49'-6 1/2" 2'-2"

TRUSS DESIGNATION		BEARING ANGLES				WEv	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER								WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT		
	END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28P57		9	A242	2"x1 1/2"x.37"	11'-3"	4'-7 7/8"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8" -	A242	1.14	7 3/8"							4	A242	1	1.14	2'-9"	4	A242	.98	2'-9 1/2"	DS 10	A242	.98	3'-7"	DS 3	A242	.98	2'-6 3/4"

NO	DATE	REVISION	BY

REF DRWG

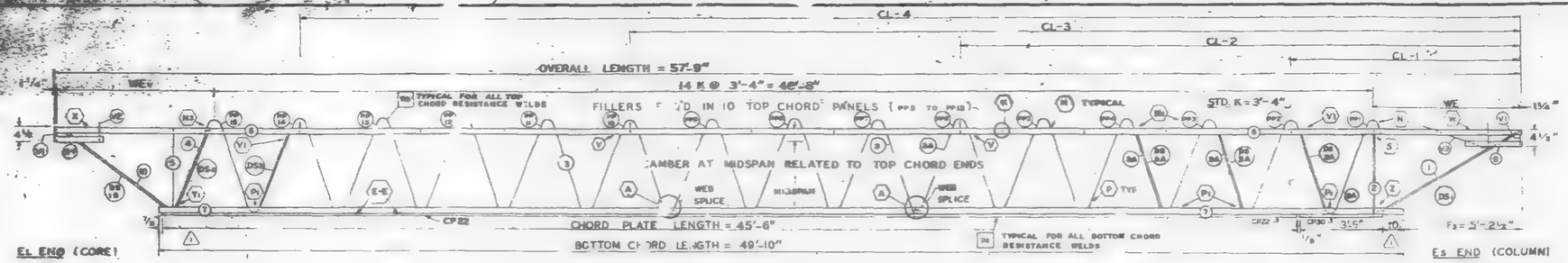
7-AB1-25	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
SACLEDE ELECTROCOAT
REQ NO 0001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

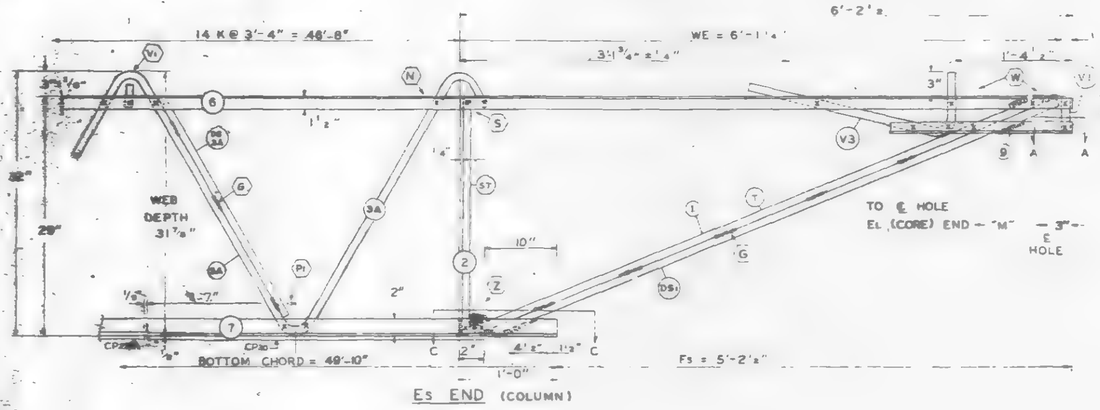
FLOOR TRUSS C32T28P 57'-7" OVERALL
WOR TRADE CENTER TOWERS A & B

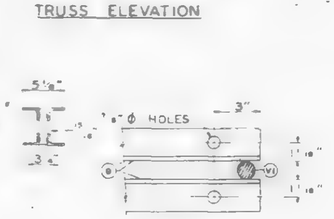
FABRICATION BY SACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY [illegible] FOR PONYA DATE 6/4/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A.C. WEBER
DESIGN DRAWING NO 7-AB1-25 PLATE
DRAWN BY: [illegible] DATE APRIL 25, 1969
CHECKED BY T.H.CHUBA DATE APRIL 25, 1969
IN CHARGE OF PROD. DEV.
FABRICATION CONT NO WTC 221
SHEET NO. ST228P



TRUSS ELEVATION

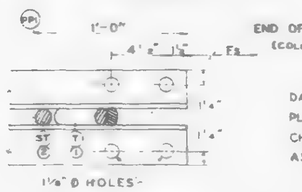
"FABRICATION"		
CAMBER AT MIDSPAN	1½"	2 3/8"
DESIGN DEPTH	32"	32"
PANEL "K"	3'-4"	3'-4"
OVERALL LENGTH	57'-2"	57'-9 3/8"
WEB DEPTH	31 7/8"	31 1/4"





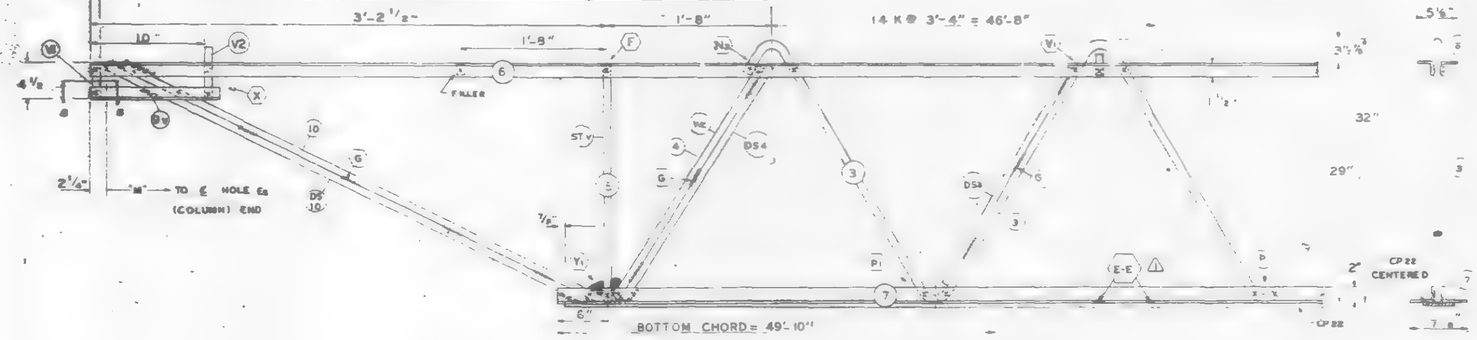
SECTION A-A

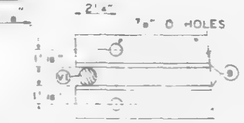
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨▨▨)
ALL WELD DETAILS SHOWN ON SHEETS ST280 - ST294 AND ST286 △
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS IN △
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS





SECTION B-B

NO	DATE	REVISION	BY
△	2-18-69	AS NOTED	T.M.C

REF DRWG.

7-AB1-25	1-8-68
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	(3) (REQ'D) DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
C32T28N-579	6	A242	2"x1½"x.37"	57'-9"	7	A36	3"x2"x.37	49'-10"	3 / 3A	A242 / A242	1.14 / 1.14	59'-4 3/4 & 8 1/8 / 59'-3 1/2 & 8 1/8	4 @ 3'-4" / 28'-4"	11	1.14	57'-3¾"	4	1"¼	3"	CP 22	A36	.6½"x.50	45'-6"	DS 3A	A242	.92	2'-6 3/4"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "D" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
		C32T28N-579	9	A242	2"x1½"x.37"	2'-3"	6'-1¼"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4⅜"	A242	1.14	℄	DS 1	A242	.98	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

C-CORD PLATE △ MK	TYPE STEEL	SIZE	LENGTH
CP 30	A36	.6½ x 50	3'-5"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "V" STRUT △ MK	TYPE STEEL	DIA	LENGTH	VERTICAL "SV" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	REF V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT △ MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT △ MK	TYPE STEEL	DIA	LENGTH
		C32T28N-579	9	A242	2"x1½"x.37"	1'-0"	4'-9 1/16"	10	A242	1.14	3'-9 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4⅜"	A242	1.14	7⅜"				4	A242	1	1.14	2'-9 1/2"	DS 4	A242	.98	2'-9 1/2"	DS 10	A242	.98	3'-6	DS 3	A242	.98	2'-6 3/4"

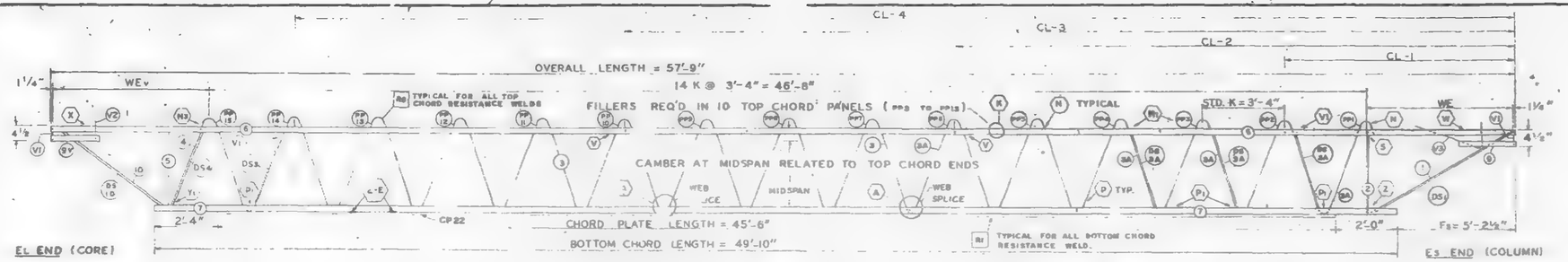
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

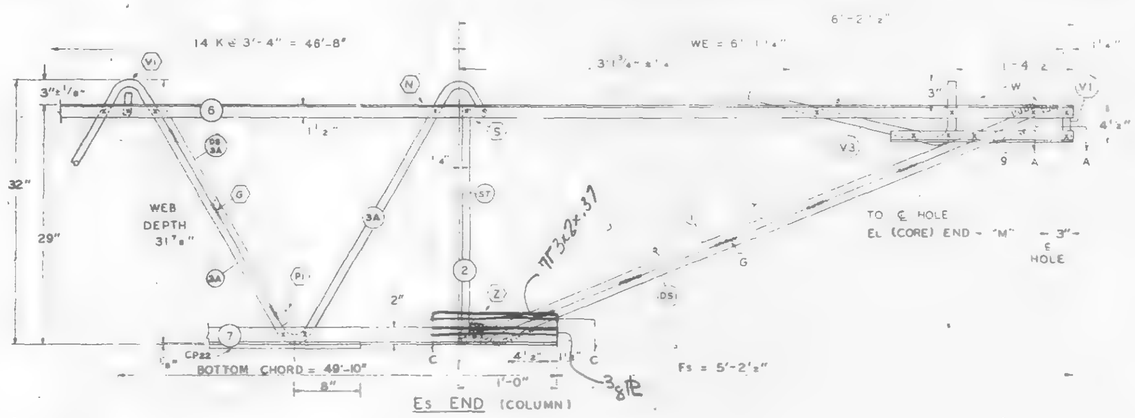
FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED LACLEDE STEEL CO.

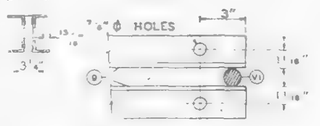
DESIGN DRAWING NO. 7-AB1-25 PLATE
DRAWN BY: R.B. DATE: MAR. 20, 1968
CHECKED BY: T.M.CHIN DATE: MAR. 21 1968
FABRICATION CONT. NO. W.T.C. 221
NO CHANGE IN PROD. REV.
SHEET NO. ST280



TRUSS ELEVATION

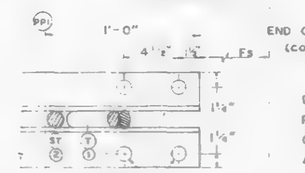
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	57'-9"	- 3/8"
WEB DEPTH	31 7/8"	± 1/4"





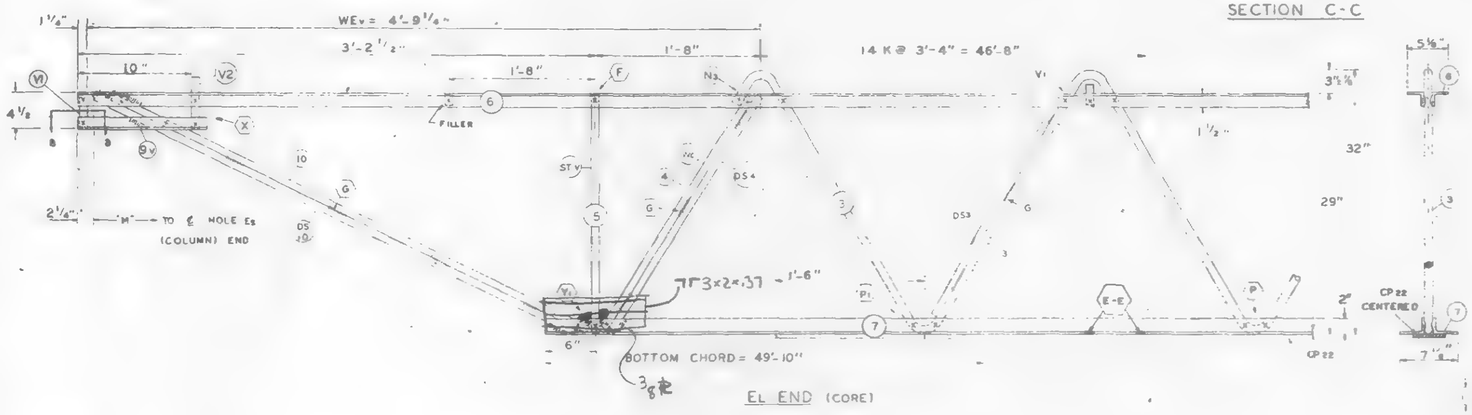
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (WELDING)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie., R1

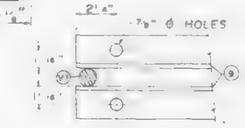


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

REF DRWG.	
7-AB1-25	1-6-68
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				(3) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
C32T28N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	8	A242	1.14	53'-4 3/4	8 1/2 K @ 3'-4" = 28'-4"	1	1.14	57'-3¾	4	1.14	3"	CP 22	A36	6½"x.50	45'-6"	DS 3A	A242	.92	2'-6 ⅝"
									3A	A242	1.14	34'-8 1/2	3 1/2 K @ 3'-4" = 10'-4"													

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT			VERTICAL "ST" STRUT			END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
		C32T28N-579	9	A242	2"x1½"x(25) .37	2'-3"	6'-1"	1	A242	1.14	6-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS 3	A242	.98	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

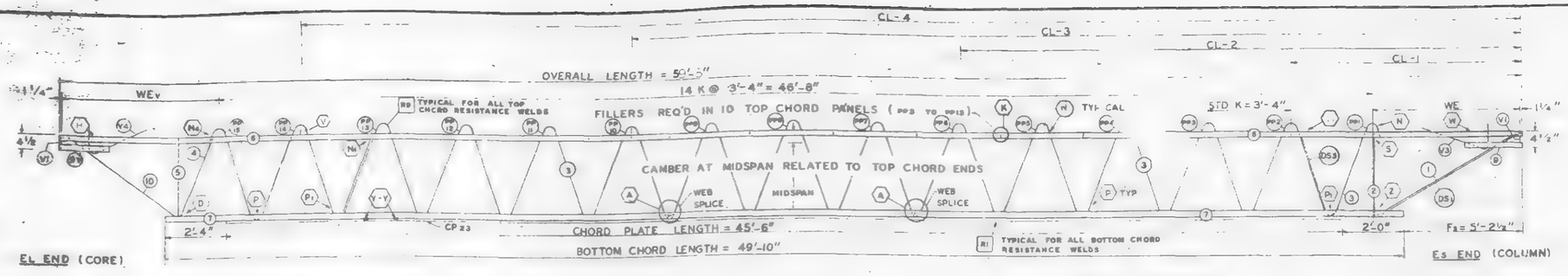
CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "TV" STRUT			VERTICAL "STV" STRUT			END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"				DOUBLE STRUT			DOUBLE STRUT			DOUBLE STRUT		
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T28N-579	9	A242	2"x1½"x(25) .37	1'-0"	4'-9¼"	10	A242	1.14	3'-7⅝"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	4	A242	1	1.14	2'-9½"	DS 4	A242	.98	2'-9½"	DS 10	A242	.98	3'-7⅝"	DS 3	A242	.98	2'-6 ⅝"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T28N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A&B

FABRICATION BY LACLEDE STEEL COMPANY

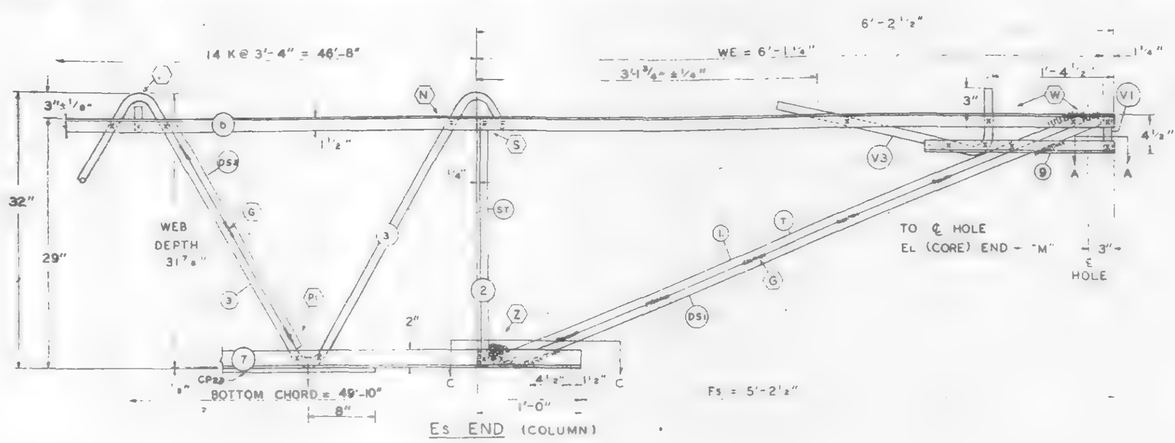
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-25	PLATE
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A.	DATE ____	DRAWN BY: R.B DATE: JAN. 20, 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE ____	CHECKED BY T.H.CHUNG DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST228N

SKILLING HELLE CHRISTIANSEN & ROBERTSON
CONSULTING STRUCTURAL ENGINEERS
X
2/19/69 SK

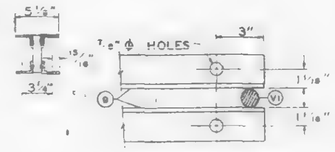


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	50'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

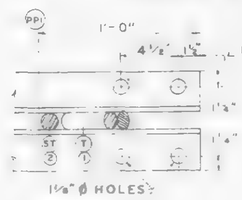


Es END (COLUMN)



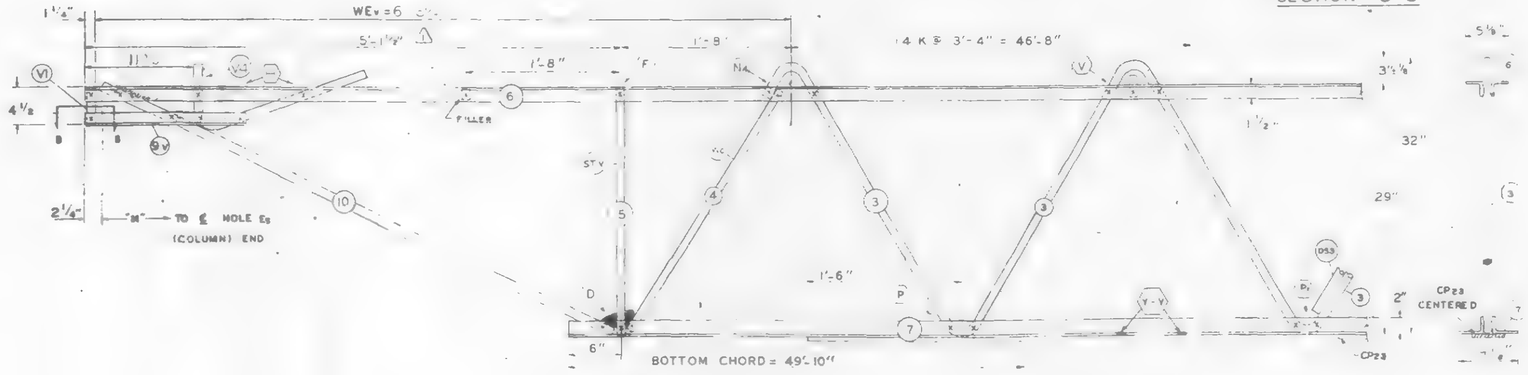
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (RI)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST295
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie. RI



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



EL END (CORE)

SECTION B-B

NO.	DATE	REVISION	BY
1	6-12-68	AS NOTED	G.D.C.

REF DRWG.

7-ABI-26	1-8-68
7-AB4-30	8-1-68
7-AB3-41	1-8-68
7-ABI-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF R	NO.	DIA.		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29C598	6	A242	2"x1 1/2"x.37		7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14		4	1.14	3"	CP23	A36	4 1/2"x.39	45'-6"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
EL END	C32T29C598	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"	A242	1.14	2'-9 1/2"	DS1	A242	.92	6'-5 1/2"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Dv" STRUT				VERTICAL "STv" STRUT				END STIFFENER						WEB "Wc"				DOUBLE STRUT			DOUBLE STRUT			(2) DOUBLE (REQ'D) STR			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	POS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
EL END	C32T29C598	9	A242	2"x1 1/2"x.37	1'-6"	6'-8 1/4"	10	A242	1.14	5'-5 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"							4	A242	1	1.14	2'-9 1/2"									

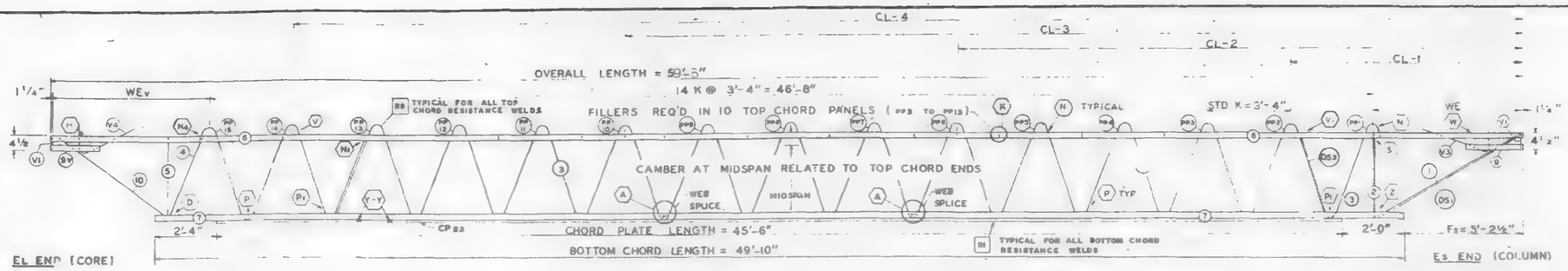
PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29C 598-2 OVERALL
WORLD TRADE CENTER TOWERS A & B

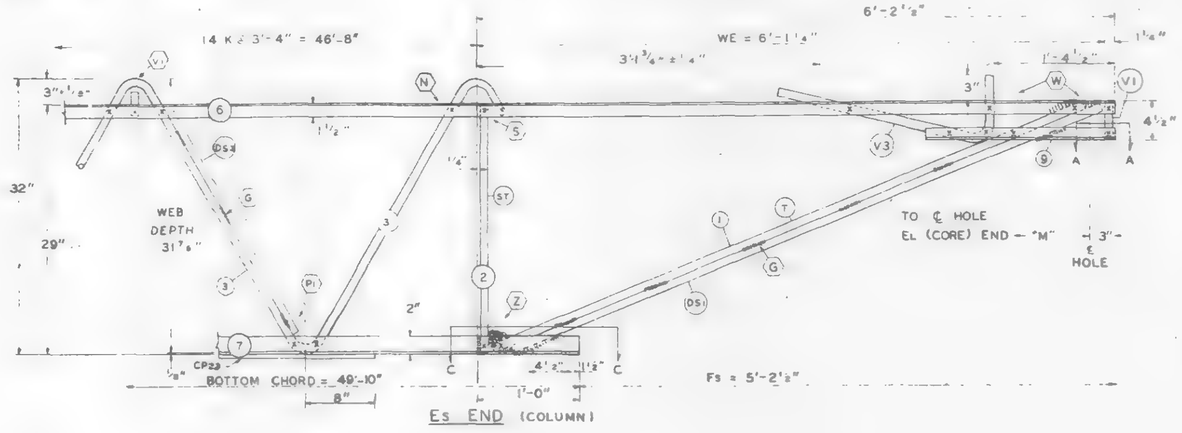
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE: 7/28/69
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE:
LACLEDE STEEL CO.
DETAILED BY: A.C. WEBER

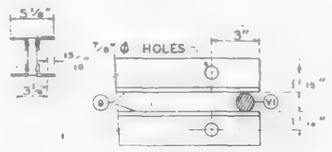
DESIGN DRAWING NO. 7-ABI-26
DRAWN BY: DATE: MAY 1969
CHECKED BY: DATE: MAY 1969
FABRICATION CONT. NO. W.T.C 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO. ST229



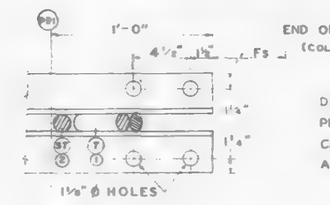
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/16"

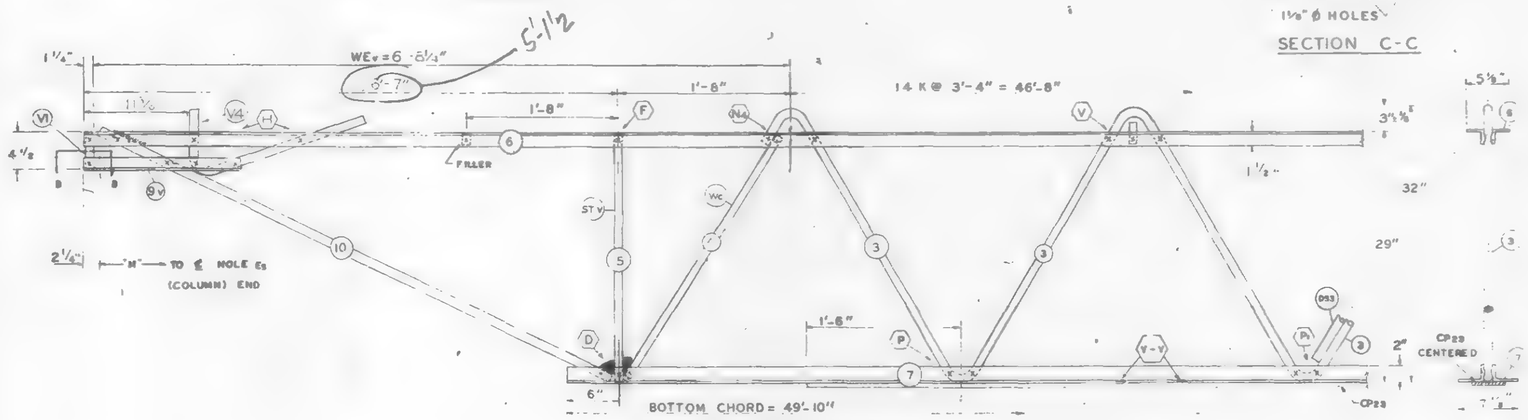


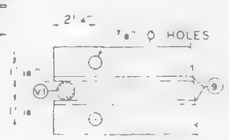


ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST295
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. [R1]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.





NO	DATE	REVISION	BY

REF DRWG.

7-AB1-26	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK.	TYPE EL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO	DIA.		MK.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T29C 598	6	A242	2"x1½"x.37	59'-5"	7	A36	3"x2"x.37	49'-10"	3	A242	1¼	88'-1¼	14 @ 3'-4" = 46'-8"	11	1¼	59	4	1¼	3"	CP23	A36	4½"x.39	45'-6"

COLUMN END

TRUSS DESIGNATION	F.S. E.D	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LGTH.
C32T29C 598		9	A242	2"x1½"x.37	2'-8"	6'-1¼"	1	A242	1¼	6'-3⅛"	2	A242	1¼	2'-4⅜"	A242	1¼	4⅜"	A242	1¼	2'-9⅛"	DS1	A242	9⅛	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

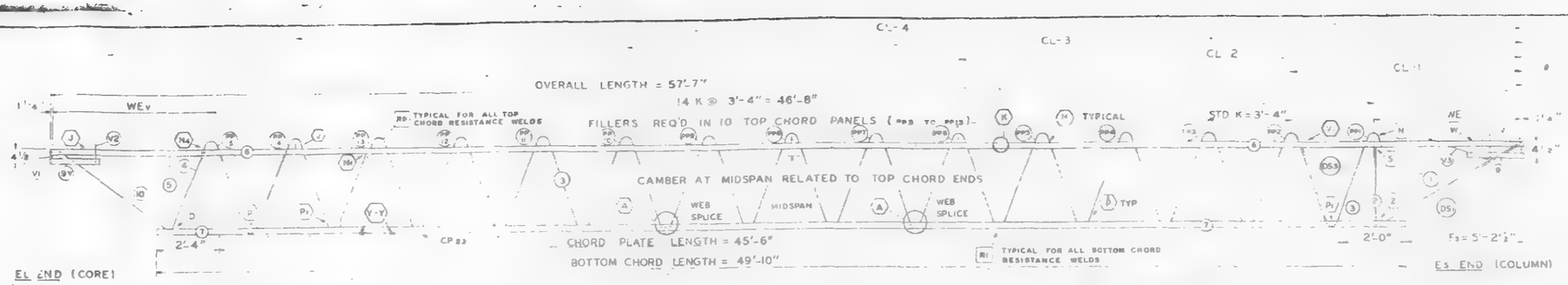
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK.	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	PCS	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	(2) DOUBLE STRUT (REQ'D) MK.	TYPE STEEL	D.	NGTH
C32T29C 598	9	A242	2"x1½"x.37	1' 6"	6'-8¼"	10	A242	1¼	5'-5½"	5	A242	1¼	2'-4⅞"	A242	1¼	4⅜"				A242	1¼	7'-2½"	4	A242	1	1'-8"	2'-9½"	—	—	—	—	—	—	—	—	3	A242	75	6'-6⅜"

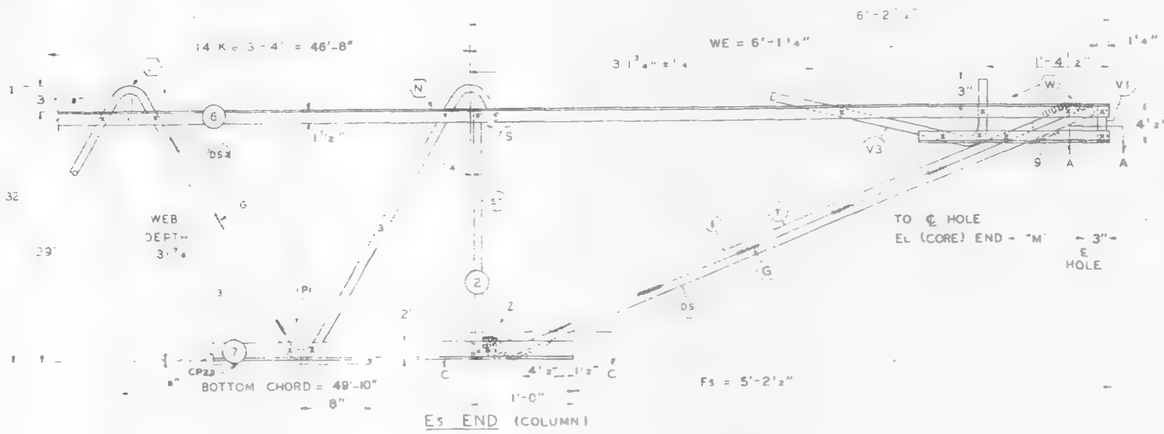
STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T29C 59'-2" OVERALL
WORLD TRADE CENTER TOWERS A & B

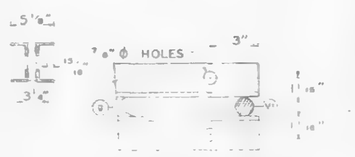
FABRICATION BY: LACLEDE STEEL COMPANY		
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-26	PLATE
APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A.	DATE	DRAWN BY: R.B. DATE: MAY 1, 1969
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR	DATE	CHECKED BY: T.B.C. DATE: MAY 1 1969
DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST229C



TRUSS ELEVATION

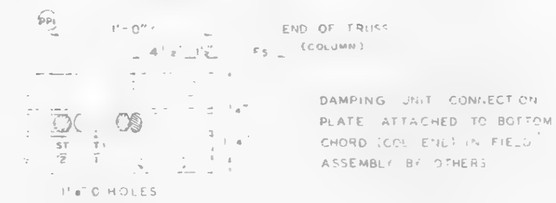
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	7 5"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



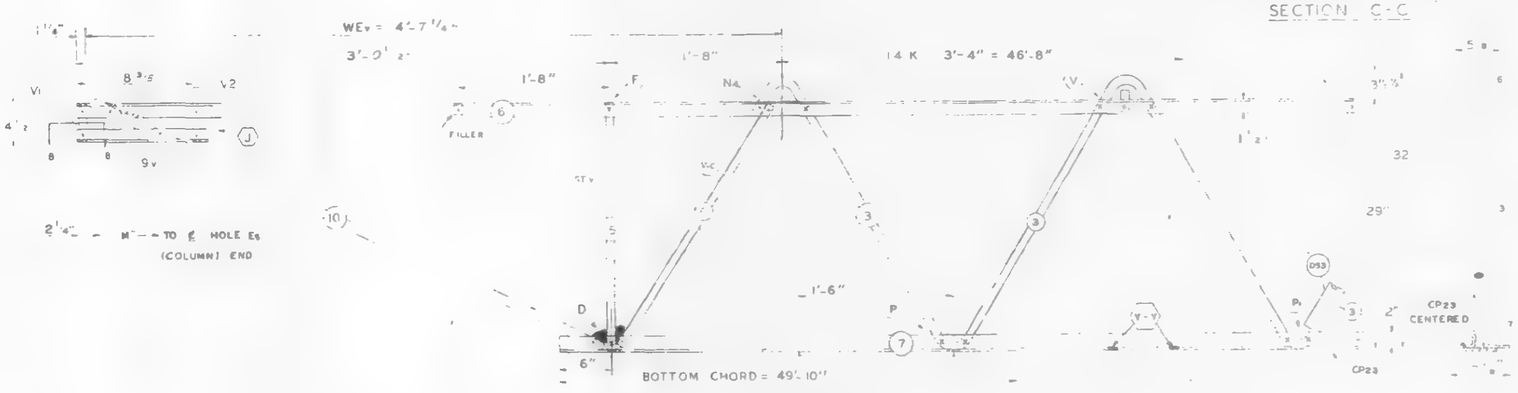


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (TYPICAL)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS IN (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (QCP)



SECTION C-C



EL END (CORE)

SECTION B-B

REF DRWG	
7-AB1-26	1-6-69
7 AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES		CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	S.SIZE	LENGTH
C32T29P 57'-7"	6	A242	2"x1 1/2"x .37	57'-7"	7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88'-1 1/2"	14 @ 3'-4" = 46'-8"	11	1.14	5" / 1 3/4	4	1.4	3"	CP 23	A36	4 1/2"x 39	45'-6"

ES END	TRUSS DESIGNATION	BEARING ANGLES			WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T29P 57'-7"	9	A242	2"x1 1/2"x .37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.4	4 3/8"	A242	1.14	2'-9 1/2"	D3	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	52'-8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES			WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER						WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE (REQD) S			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	A	LENGTH
		C32T29P 57'-7"	9	A242	2"x1 1/2"x .37	10 1/4"	4'-7 1/4"	10	A242	1.14	3-8 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	-	-	-	4	A242	1	1.14	2'-9"	-	-	-	-	-	-	-	-	-	-	D3	A242	75	2'-6 5/16"

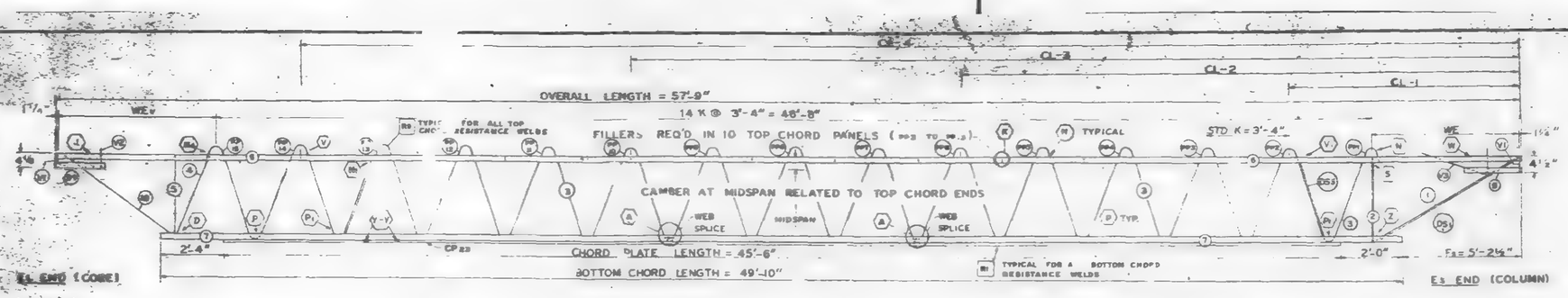
DETAILED BY	A C WEBER

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

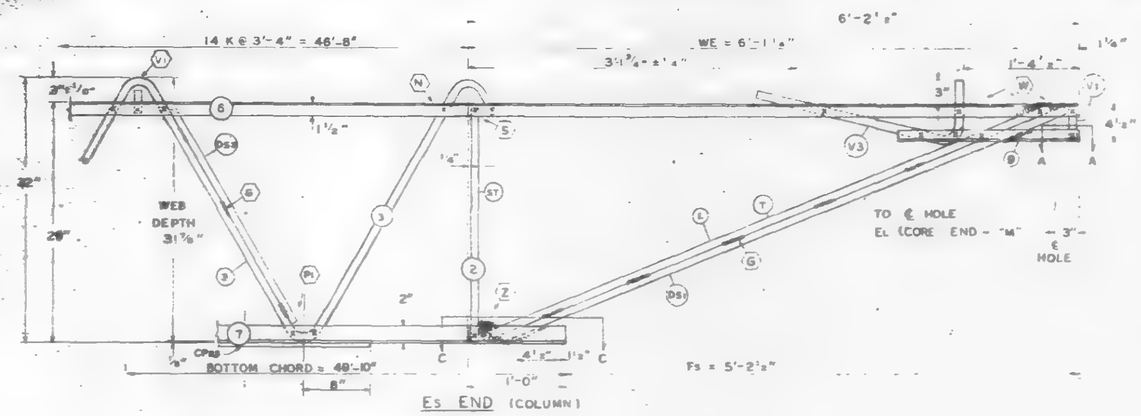
FABRICATION BY LACLEDE STEEL COMPANY

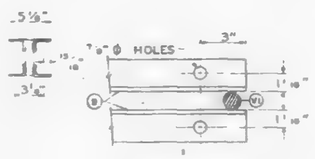
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-26 PLATE 1
APPROVED FOR FABRICATION BY FOR PONYA	DATE 6/14/69
DRAWN BY: [illegible] DATE: [illegible]	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE
CHECKED BY: T.M.CHUNA DATE: JUNE 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A C WEBER	FABRICATION CONT. NO. WTC 221
	SHEET NO. ST229P



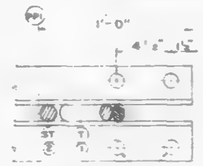
TRUSS ELEVATION

DESIGN DEPTH	28"	
PANEL "K"	3'-4"	
OVERALL LENGTH	57'-9"	
WEB DEPTH	31 7/8"	





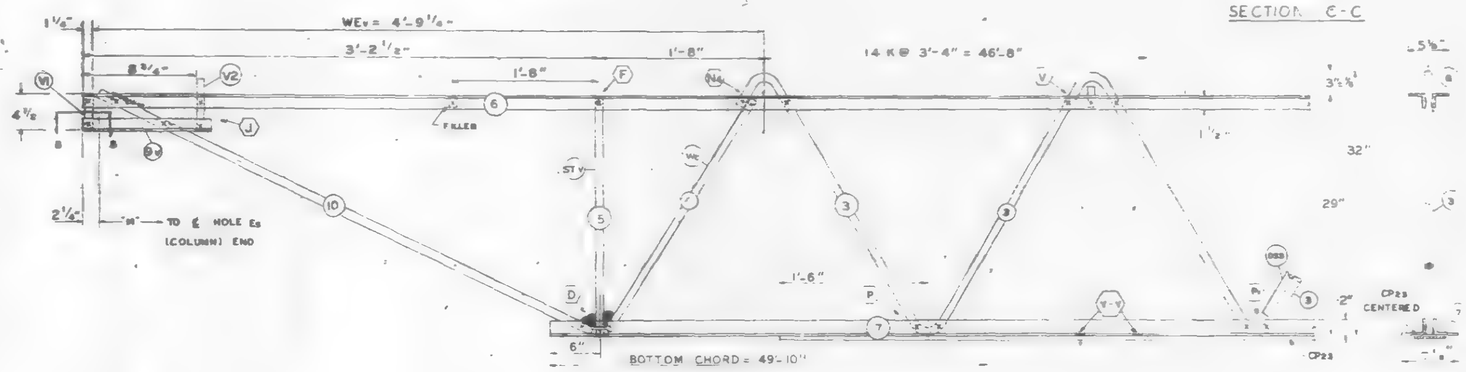
SECTION A-A

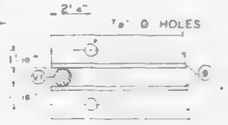


SECTION C-C

DAMPER UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL-END) IN FIELD ASSEMBLY BY OTHERS

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST285.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS - ex. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM - ex. (R1)





SECTION B-B

NO.	DATE	REVISION	BY
1	2-18-68	BEARING ANGLE SIZE & CON FILLERS	GLEN

REF DRWG.

7-AB1-28	1-8-68
7-AB4-50	8-14-68
7-AB3-41	1-6-68
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES	CONNECTION FILLERS (1)			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/16"	4	1.14	3"	CP23	A36	4½"x.391	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES (1)				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	L	STH	MK.	TYPE STEEL	DIA	LGTH
	C32T29N-579	9	A242	2"x1½"x.37	2'-3"	6'-1 1/8"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	1.14	2-9	91	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES (1)				WEv	DIAGOPIAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V2						WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQD)			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T29N-579	9	A242	2"x1½"x.37	10½"	4'-9 1/8"	10	A242	1.14	3-10"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8" -	A242	1.14	7 3/8" -	-	—	—	—	4	A242	1	1.14	2'-9 1/8"	-	—	—	—	-	—	-	—	93	A242	75	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: LACLEDE STEEL CO. FOR FABRICATOR — DATE: 2/24/67

DETAILED BY: A.C. WEBER

DESIGN DRAWING NO. 1-AB-28 PLATE

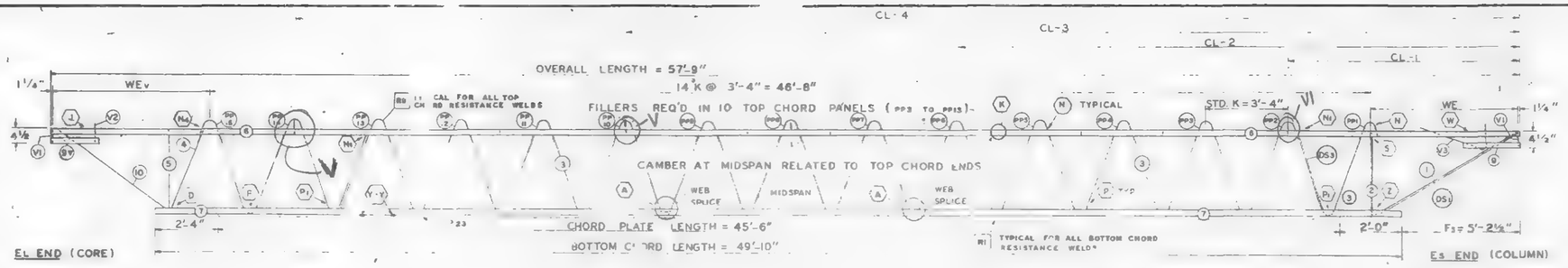
DRAWN BY: A.B. DATE: JAN. 20 1968

CHECKED BY: J.L. DATE: JAN. 20, 1968

FABRICATION CONTRACT NO. W.T.C. 221

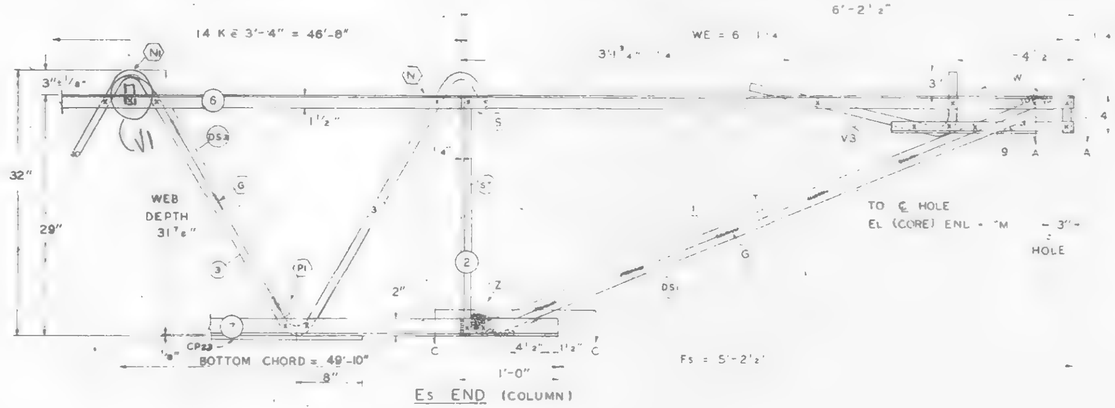
SHEET NO. ST 2-1

IN CHARGE OF ENGR. GLEN

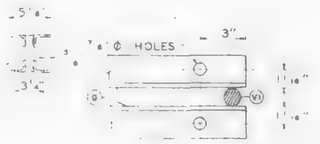


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



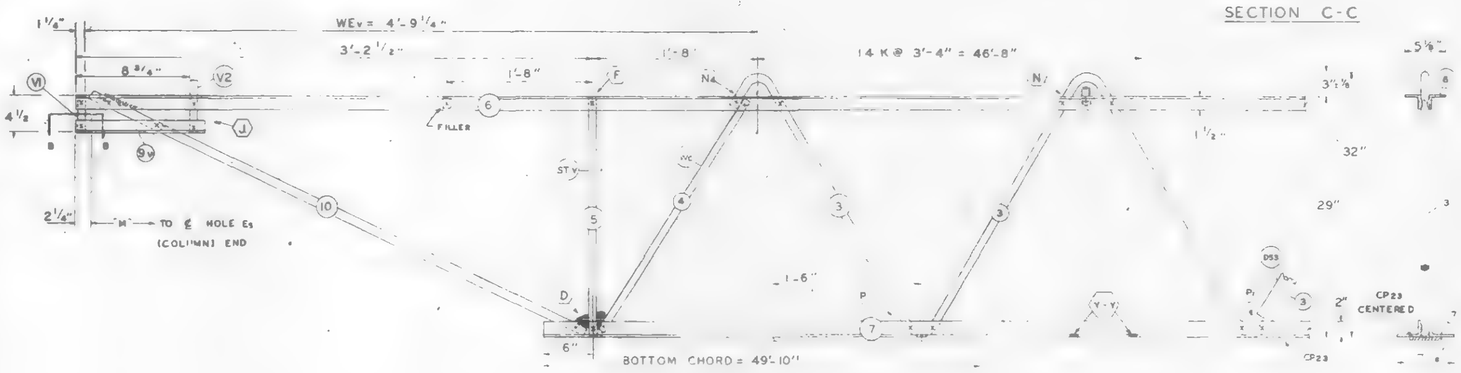
Es END (COLUMN)



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. R1

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)

REF DRWG

7-AB1-26	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1⅛"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"				CP23	A36	4'-2"x.39	45'-6"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
															MK V1			MK V3						
	Es END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
COLUMN END	C32T29N-579	9	A242	2"x1½"x.25 (C37)	2'-3"	6'-1"±"	1	A242	1.14	6'-3⅞"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS	A242	.92	6'-3⅞"

	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Dv" STRUT				VERTICAL "STv" STRUT				END STIFFENER								WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE (RECTD) STRUT			
															MK V1			MK V2			MK V4																
	EL END	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END	C32T29N579	9	A242	2"x1½"x.25 (C37)	10'½"	4'-9¼"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅝"	—	—	—	4	A242	1	1.14	2'-9½"	—	—	—	—	—	—	—	—	DS	A242	.75	2'-6¾"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

2/19/69 SK

FABRICATION BY	LACLEDE STEEL COMPANY		
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-26	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY: R.J. DATE: JAN 20 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE	CHECKED BY T.H.CHUBA DATE JAN 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO. W.T.C. 221	SHEET NO ST29N

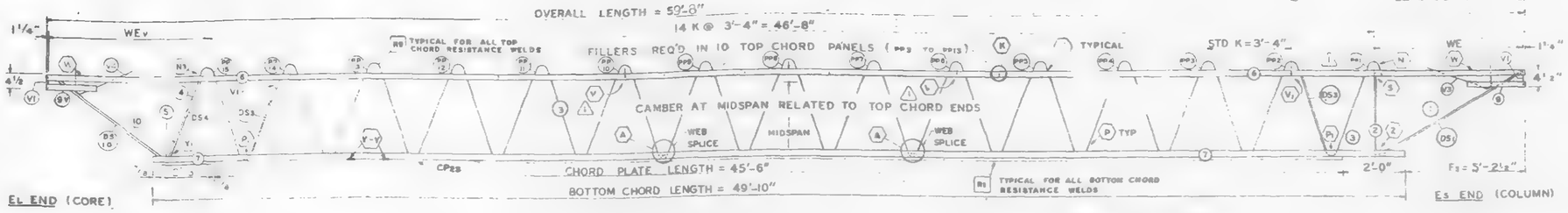
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

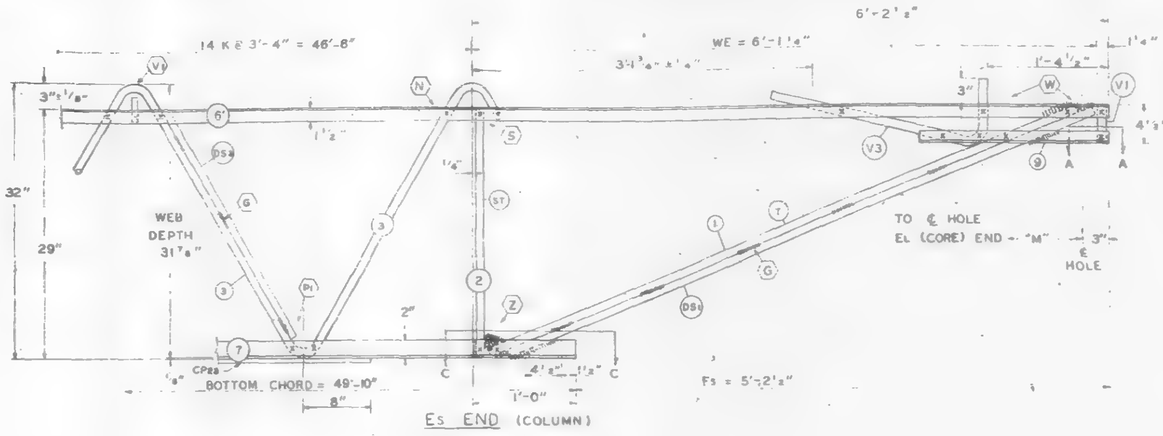
CL-4

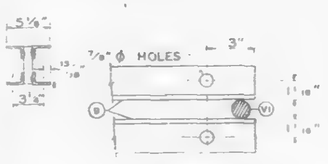
CL-4 CL-3 CL-2 CL-1



TRUSS ELEVATION

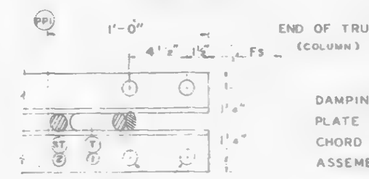
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	28"	± 1/16"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





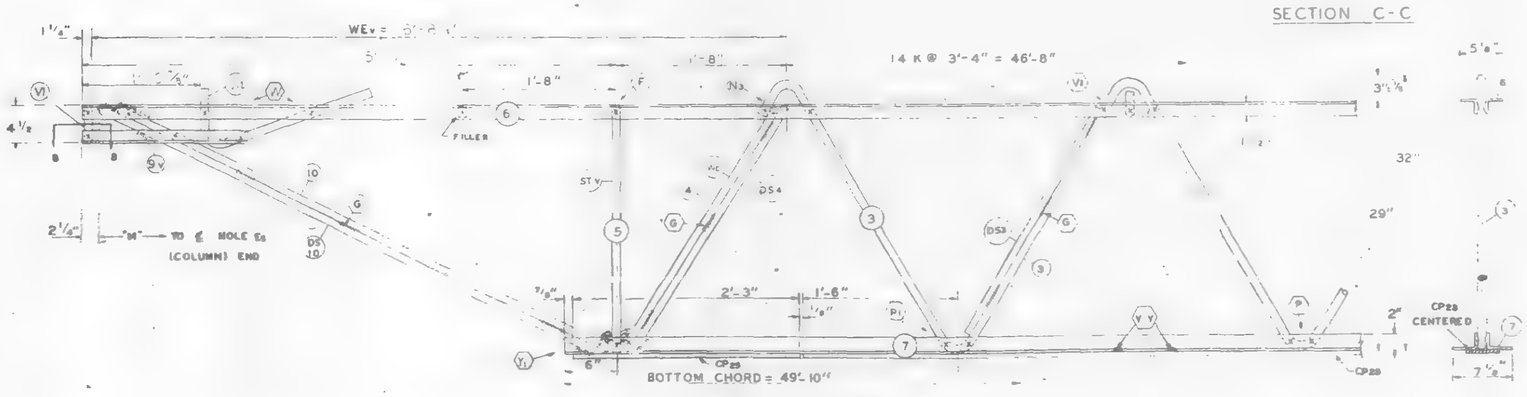
SECTION A-A

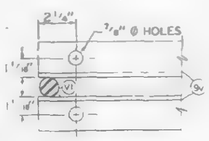
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED ⊿ SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmmm)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST285 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. (R1)



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.





SECTION B-B

EL END (CORE)

NO	DATE	REVISION	BY
1	6-18-69	AS NOTED	G.D.C

REF DRWG.

7-ABI-27	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-ABI-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30C598	6	A242	2"x 2"x .37		7	A36	3"x 2" x .37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	3' 2 3/4"	4	1.14	0'-3"	CP28	A36	4 1/2" x .39"	45'-6"	—	—	—	—	—	CP29	A36	4 1/2" x .39"	2'-3"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1				END STIFFENER MK V3				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	DIA	LGTH
C32T30C598	9	A242	2"x1 1/2"x .37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 5/8"	A242	1.14	4 3/8"		A242	1.14	2'-9 1/2"		DS1	A242	.92	6'-3 1/8"

COLUMN END

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2", 49'-6"		5'-2 1/2"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1				END STIFFENER MK V2				END STIFFENER MK V4				WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (RECD)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T30C598	9	A242	2"x1 1/2"x .37	1'-5"	6'-8 3/8"	10	A242	1.14	5'-4 1/4"	15	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"						A242	1.14	2'-2 1/2"		4	A242	1	1.14	2'	DS4	A242	.75	2'-0 1/8"	DS3	A242	.75	5'-4 1/4"	DS1	A242	.75	2'-6 3/4"

CORE END

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30C 59'-8" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: [illegible] FOR P.O.N.Y.A. DATE 7/22/69

APPROVED FOR FABRICATION BY: [illegible] FOR FABRICATOR DATE 1

LACLEDE STEEL CO.

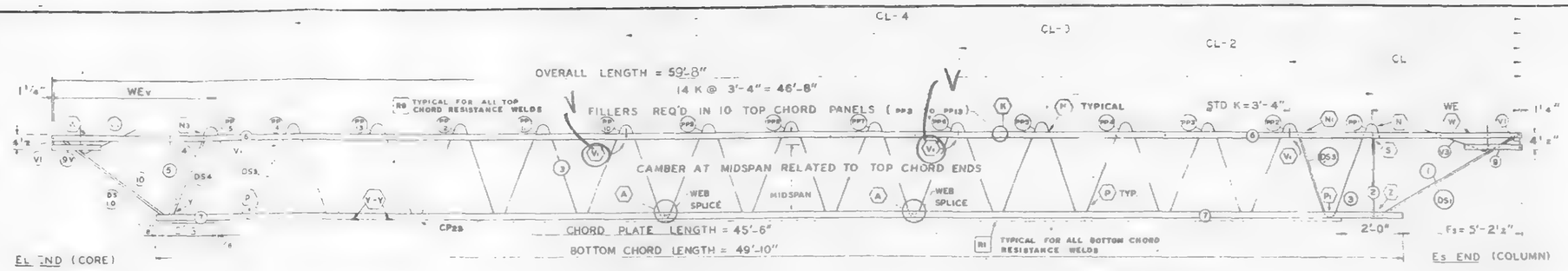
DETAILED BY: A.C. WEBER

DESIGN DRAWING NO. 7-AB-27 PLATE

DRAWN BY: [illegible] DATE: APRIL 25, 1969

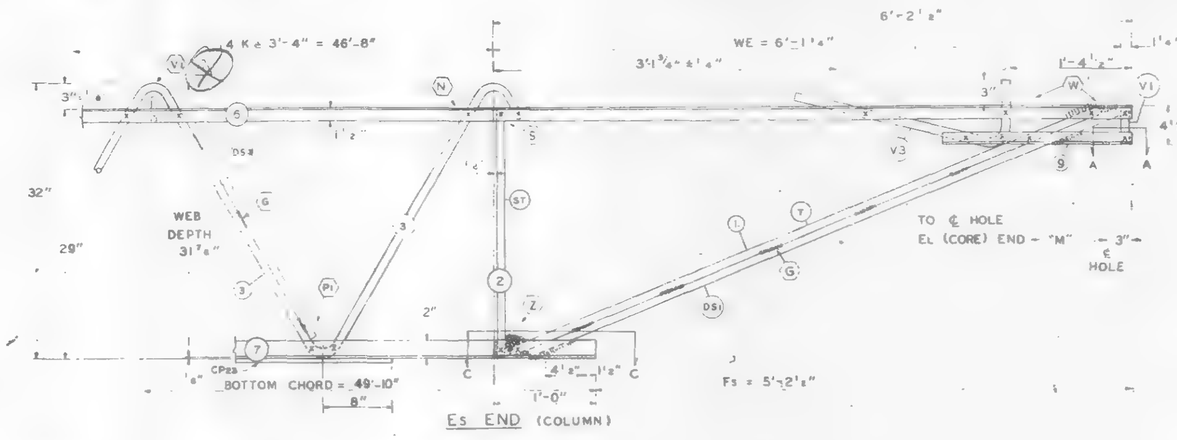
CHECKED BY: T.A.CIMBA DATE: APRIL 25, 1969 IN CHARGE OF PROD. DEV.

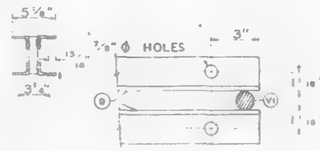
FABRICATION CONT. NO. W.T.C. 221 SHEET NO. ST230



TRUSS ELEVATION

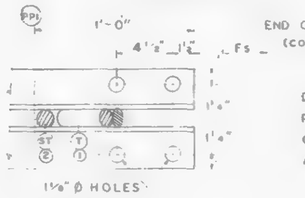
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





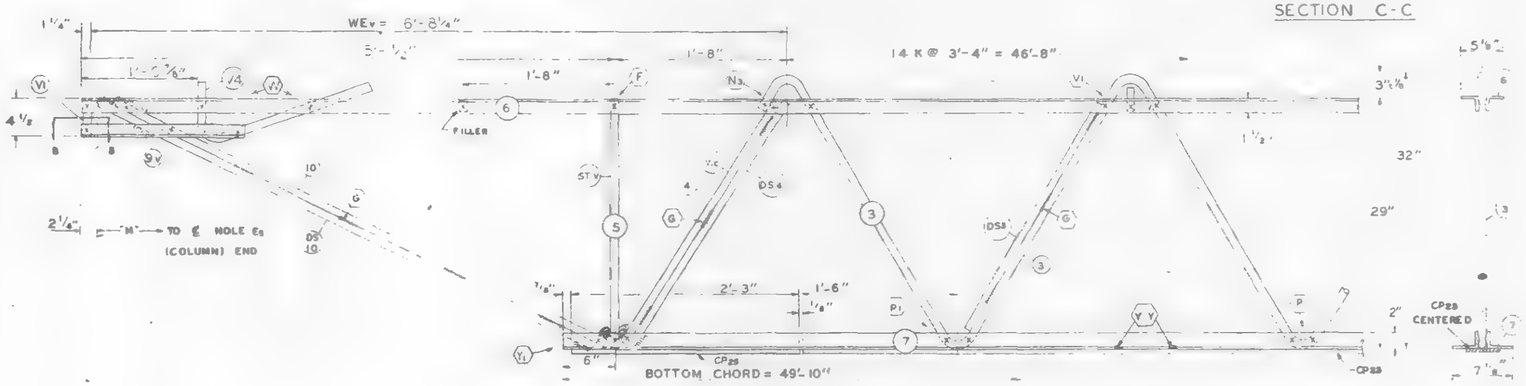
SECTION A-A

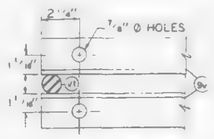
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (MMAW)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST 286.
SEE SHEET ST 295 FOR V1, V2, V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.





SECTION B-B

NO	DATE	REVISION	BY

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED
APPROVED AS NOTED
RESUBMIT
REJECTED
6/6/69 by SK

REF DRWG

7-A81-27	1-8-69
7-A84-50	8-1-68
7-A83-41	1-6-69
7-A81-58	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD WO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF X	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30C598	6	A242	2"x1 1/2"x .37	59'-8"	7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	59'-2 3/4"	4	1.14	0'-3"	CP23	A36	4 1/2"x .39	45'-6"	—	—	—	—	CP23	A36	4 1/2" x .39"	2'-3"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
C32T30C598	9	A242	2"x1 1/2"x .37	2'-8"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
8'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	2 1/2"

TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE (REQ'D) STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	LENGTH
C32T30C598	9	A242	2"x1 1/2"x .37	1'-6"	6'-8 1/4"	10	A242	1.14	5'-4 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"				A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-9"	4	A242	75	2'-9 1/2"	DS	A242	92	5'-4 1/4"	DS	A242	.75	2'-6 3/4"

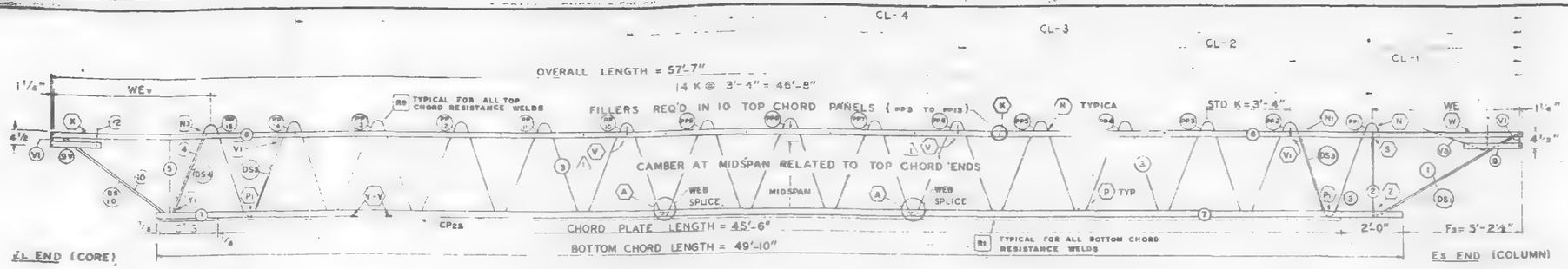
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30C 59'-8" OVERALL

WORLD TRADE CENTER TOWERS A & B

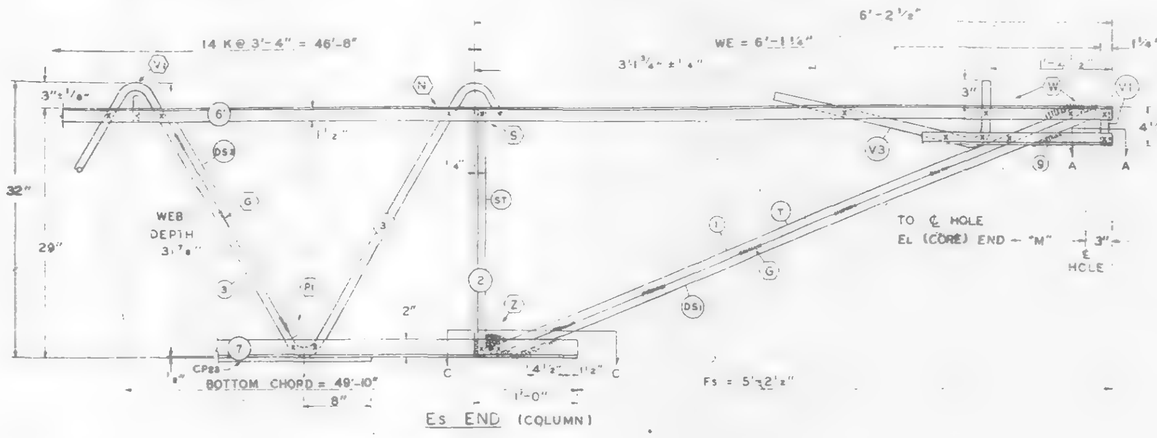
FABRICATION BY: LACLEDE STEEL COMPANY

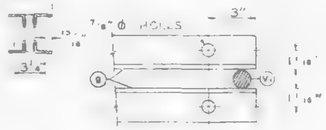
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A81-27 PLATE 4
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A.	DATE ____	DRAWN BY: T.B. DATE: APRIL 29, 1969
APPROVED FOR FABRICATION BY: ____ FOR FABRICATOR	DATE ____	CHECKED BY: T.M. CHRISTIANSEN DATE: APRIL 29, 1969 IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221 SHEET NO. ST230C



TRUSS ELEVATION

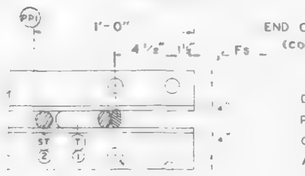
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57 7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





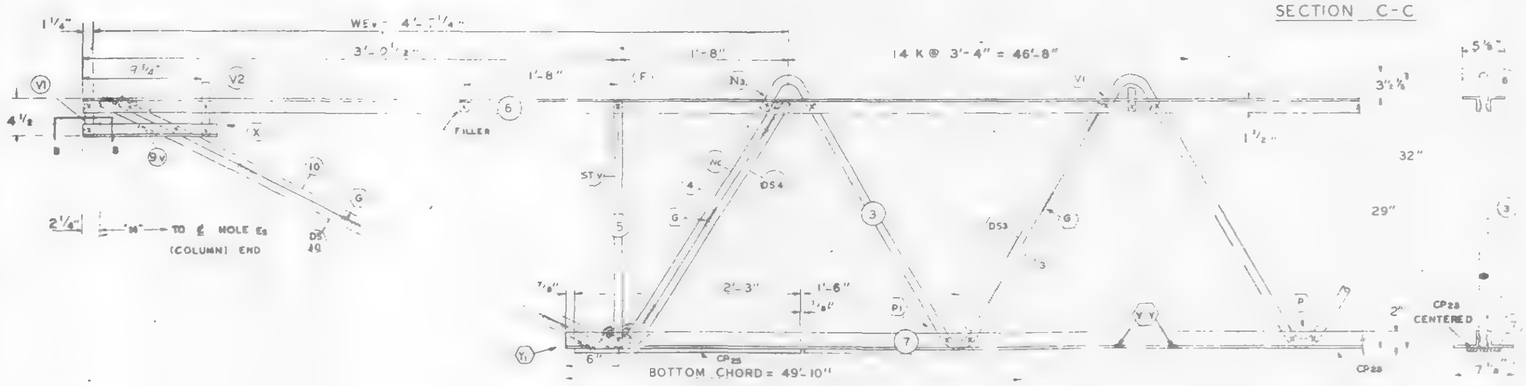
SECTION A-A

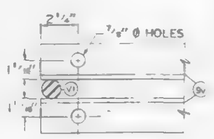
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. R1



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS

SECTION C-C





SECTION B-B

EL END (CORE)

NO	DATE	REVISION	BY
1	6-12-69	AS NOTED	G.D.C

REF DRWG.

7-AB1-27	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C to C HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	⚠	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30P-ST7	6	A242	2" x 2" x .37	57'-7"	7	A36	3" x 2" x .37	49'-10"	3	A242	1.14	88'-1 1/4	14 @ 3'-4" = 46'-8"	11	1.14	7'-1 3/4"	4	1.14	0'-3"	CP 23	A36	4 1/2" x .39	45'-6"	—	—	—	—	—	CP 25	A36	4 1/2" x .39"	2' 3"

COL IN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LGTH.
Es END	C32T30P-ST7	9	A242	2" x 1 1/2" x .37	2'-8"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.92	6'-3 1/2"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER								WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
EL END	C32T30P-ST7	9	A242	2" x 1 1/2" x .37	11 1/4"	4'-7 1/4"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	—	—	—	4	A242	1	1.14	2	DS 4	A242	.75	2'-9 1/8"	DS 10	A242	.92	3'-7"	DS 3	A242	.75	6 3/4"

1	6-12-69	AS NOTED	G.D.C
NO	DATE	REVISION	BY

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30P 57'-7" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB1-27 PLATE

APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 7/28/69

APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR DATE 1

DETAILED BY: A.C. WEBER

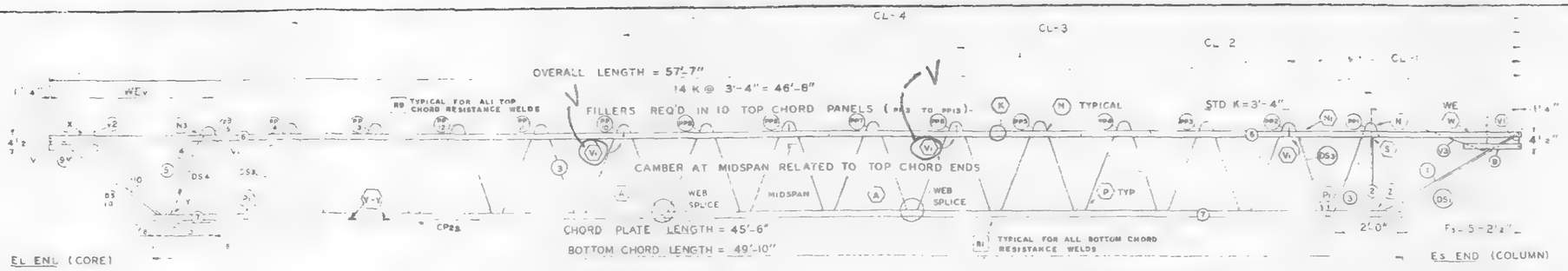
DRAWN BY: [illegible] DATE: APRIL 25, 1967

CHECKED BY: [illegible] DATE: APRIL 25, 1967

CHARGE NO.

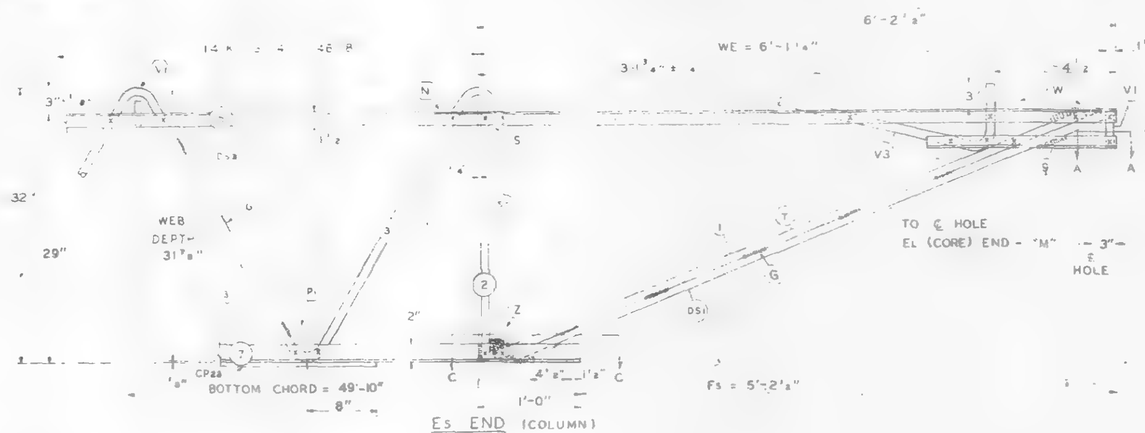
FABRICATION CONT. NO. W.T.C. 281

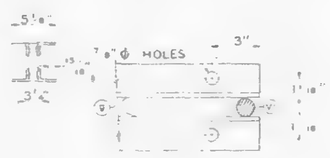
SHEET NO. ST290



TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57 7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



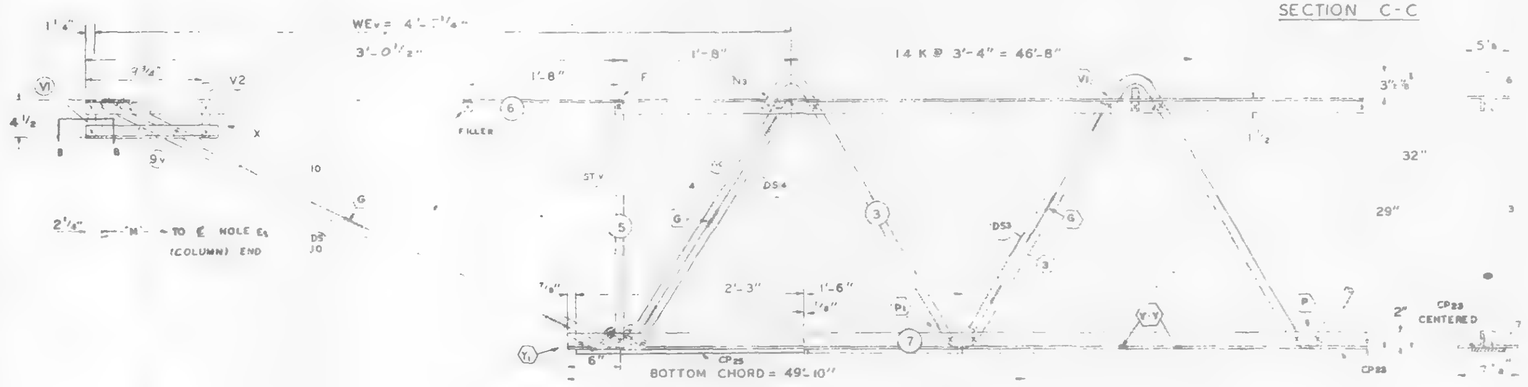


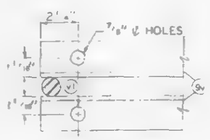
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (PP5-PP9)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. 'A')
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS





SECTION B-B

NO	DATE	REVISION	BY

REF DRWS.		
	7-AB1-27	1-6-69
	7-AB4-50	6-1-68
	7-AB3-41	1-6-69
	7-AB1-53	7-22-68

SETTING HOLE (MIN.) ANSEP 20K-5-20M
Structural & Mill Engineer
APPROVED AS NOTED
6/4/69 SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30P-577	6	A242	2"x 1/2"x .37	57'-7"	7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	1	1.14	57'- 3/8"	4	1.14	0'-3"	CP23	A36	4 1/2"x .39	45'-6"	—	—	—	—	CP25	A36	4 1/2" x .39"	2'-3"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
		C 32T30P-577	9	A242	2"x1 1/2"x .37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/2"	36'-2 1/2"	49'-6"	5'-2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(2) DOUBLE (REQ'D) STRU MK	TYPE STEEL	LENGTH
		C32T30P-577	9	A242	2"x1 1/2"x .37	11 3/4"	4'-7 1/4"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	—	—	—	4	A242	1	1.14	2'-9 1/2"	A242	75	2'-9 1/2"	DS4 10	A242	92	3'-7"	DS3 3	A242	7'	2'-6 3/16"

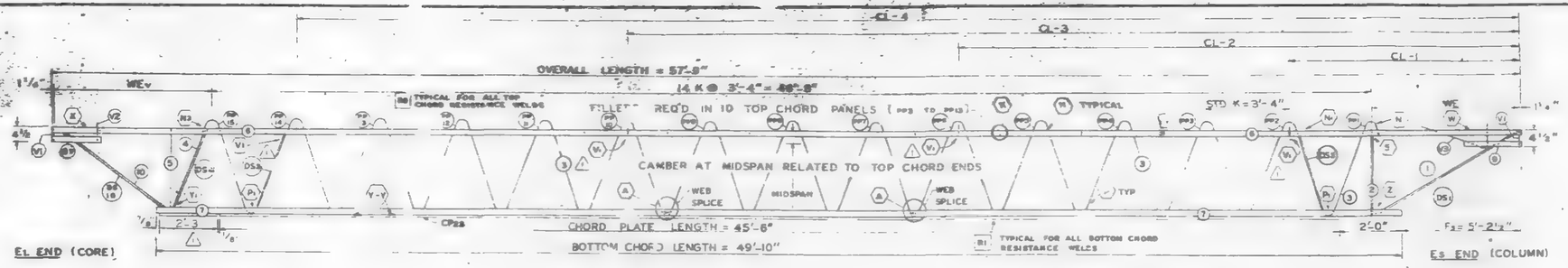
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30P 57'-7" OVERALL

WORLD TRADE CENTER TOWERS A&B

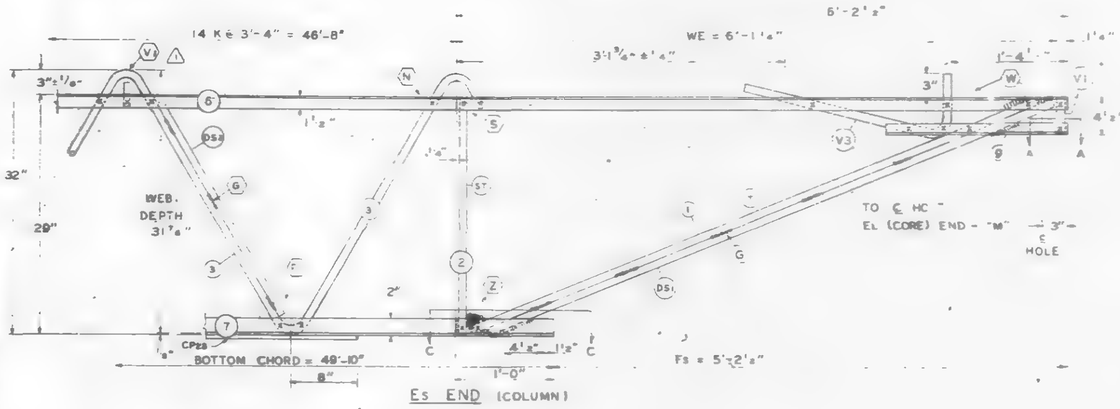
FABRICATION BY: LACLEDE STEEL COMPANY

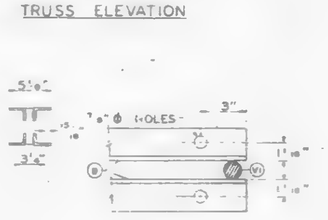
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-27	PLATE
APPROVED FOR FABRICATION BY: — FOR PO.NY.A.	DATE —	DRAWN BY: [illegible] DATE: April 25, 1967	
APPROVED FOR FABRICATION BY: LACLEDE STEEL CO.	DATE 1	CHECKED BY: T.N.CHURA DATE: April 25, 1967	IN CHARGE OF PROD. DEV
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST290P



TRUSS ELEVATION

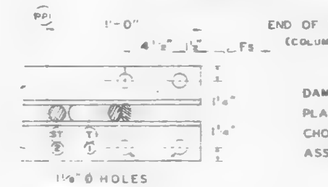
FABRICATION REQUIREMENTS		
	INCHES	TOLERANCE
CAMBER AT MIDSPAN	2"	± 1/4"
DESIGN DEPTH	2'	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 1/4"
WEB DEPTH	31 7/8"	± 1/4"





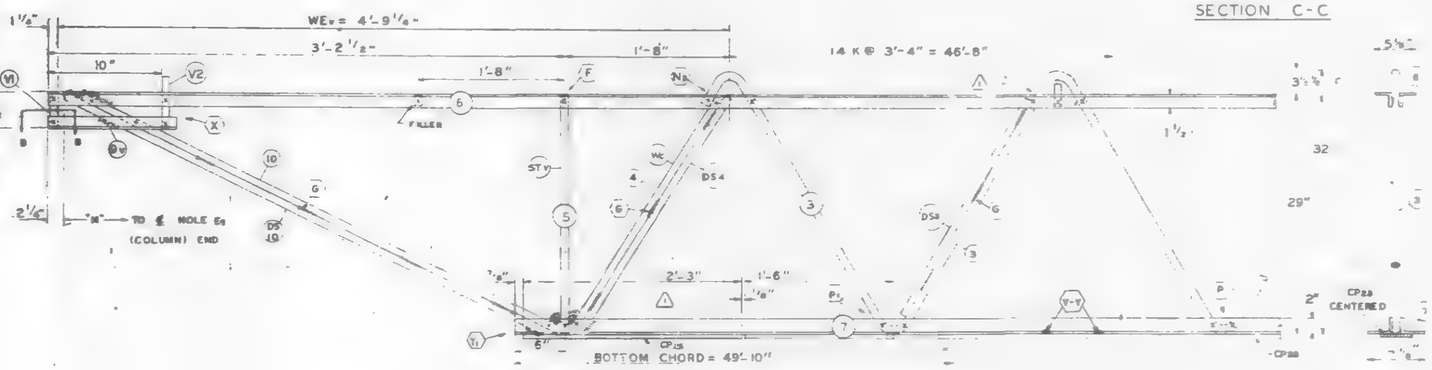
SECTION A-A

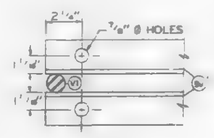
ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST280 - ST294 AND ST286.
SEE SHEET ST285 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS TO (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM TO (R)



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS





SECTION B-B

NO	DATE	REVISION	BY
1	2-18-69	AS NOTED	LJM

REF. DWGS.

7-AB1-27	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS (1)			CHORD PLATE			REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30N-579	6	A242	2"x1 1/2"x.37	57'-9"	7	A36	3"x 2"x.37	49'-10"	3	A242	1.14	88-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/4	4	1.14	0'-3"	CP25	A36	4 1/2"x 3P	45'-6"	—	—	—	—	—	—	—	—

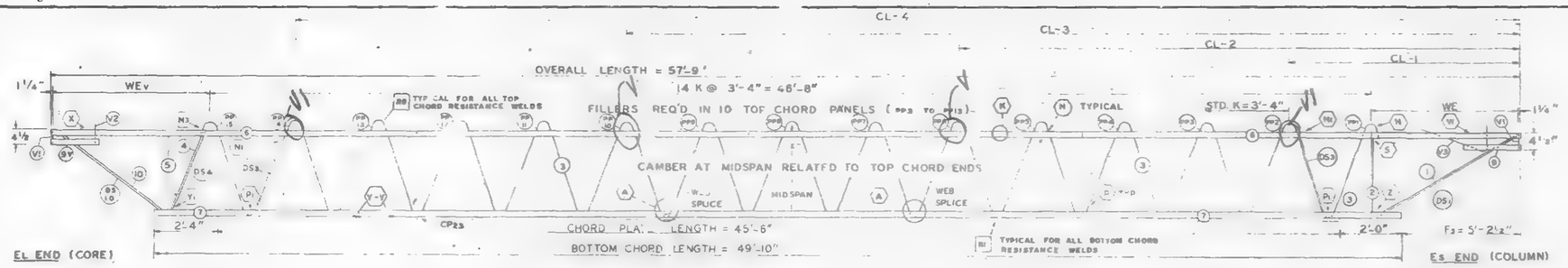
	Es END	TRUSS DESIGNATION	BEARING ANGLES (1)			WE	DIAGONAL "T" STRUT			VERTICAL "ST" STRUT			END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TY STL	MK V3 LENGTH	MK	TYPE STEEL	DIA	LGTH
COLUMN END		C32T30N-579	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8	A242	1.1	2" DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

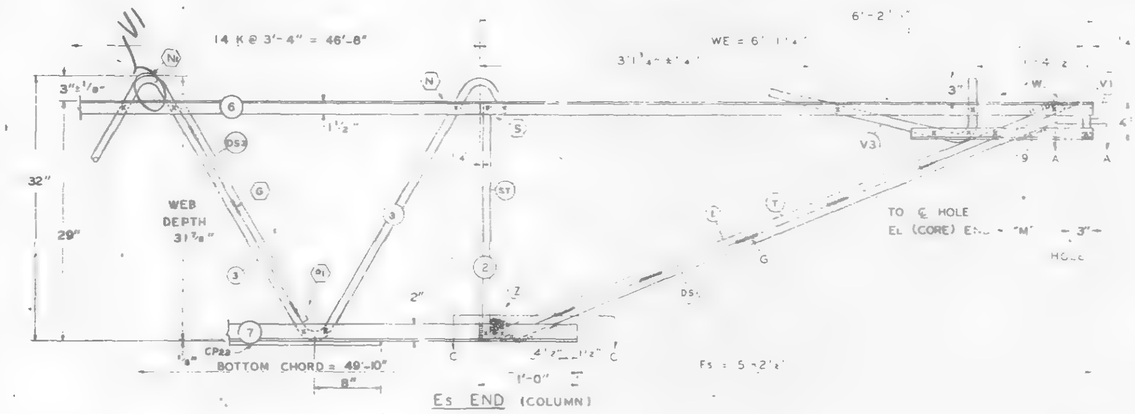
	EL END	TRUSS DESIGNATION	BEARING ANGLES (1)			WEv	DIAGONAL "Tv" STRUT (1)				VERTICAL "STv" STRUT			END STIFFENER								WEB "WC"				DOUBLE STRUT				DOUBLE STRUT (1)				(2) DOUBLE STRUT (RECD)			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END		C32T30N-579	9	A242	2"x1 1/2"x.37	1'-0"	4'-9 1/8"	10	A242	1.14	3'-8 1/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8 -	A242	1.14	7 3/8 -	—	—	—	4	A242	1	1.14	2'-9 1/8" DS4	4	A242	75	2'-9 1/8"	DS10	A242	92	3'-8 1/8"	DS3	A242	.75	2'-6 5/8"

STEEL TRUSS DETAILS			
WORLD TRADE CENTER - N.Y.C.			
FOR			
THE PORT OF NEW YORK AUTHORITY			
FLOOR TRUSS C32T30N 57'-9" OVERALL			
WORLD TRADE CENTER TOWERS A & B			
FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 1-AB-27	PLATE	
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 2/4/69	DESIGN BY: [illegible] DATE: [illegible]	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE 1	CHECKED BY: [illegible] DATE: [illegible]	DETAIL CHECK BY: [illegible]
DETAILED BY: [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST285



TRUSS ELEVATION

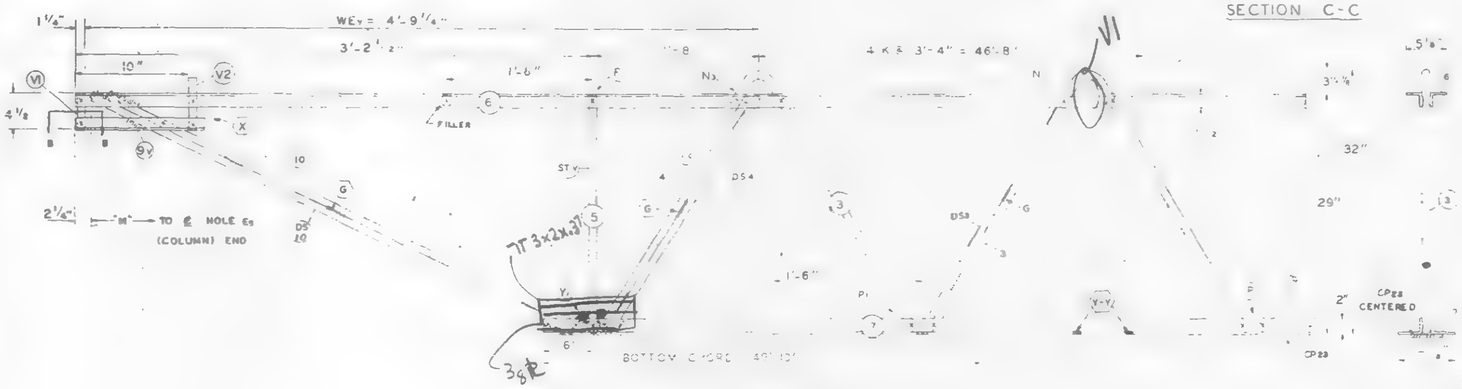
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	- 3 8"
WEB DEPTH	31 7/8"	± 1/4"

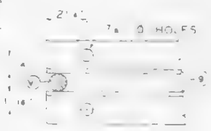


ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (RRRRRR)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST297.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (R1)

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS





REF DRWG.

7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	℄ "M" HOLES		CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF R			NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30N-579	6	A242	2"x1½"x 37	57'-9"	7	A36	3"x 2"x 37	49'-10"	3	A242	1.14	88'-1⅛"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3"			CP23	A33	4½"x .39	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
	C32T30N-579	9	A242	2"x1½"x.25	2'-3"	6'-11¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅜"	A242	1.14	4³⁄₈"	A242	2'-1½"	DS1	A242	.92	6'-3⅛"

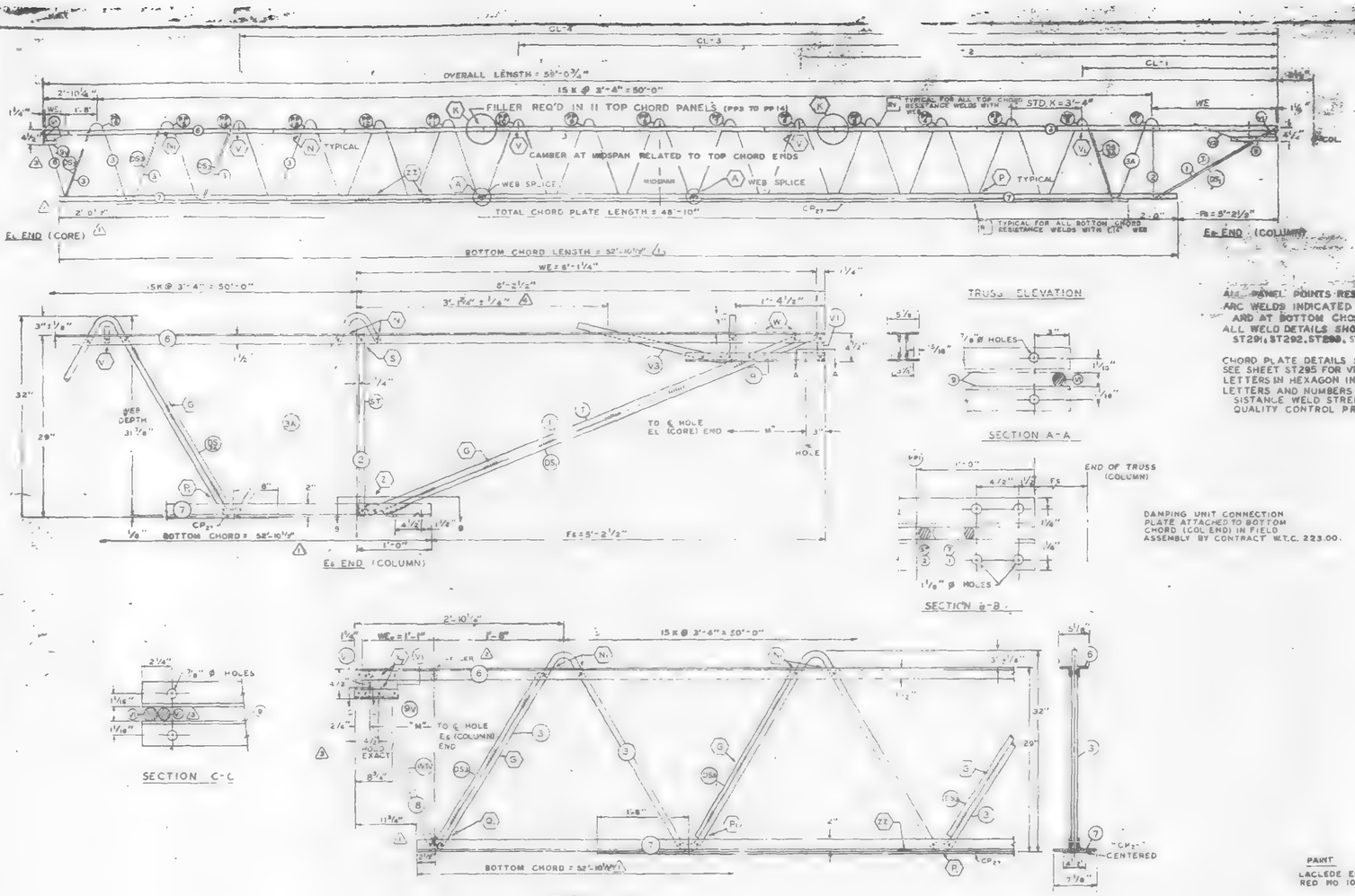
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA.	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(2) DOUBLE (REQ'D) STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T30N-579	9	A242	2"x1½"x.25	1'-0"	4'-9¼"	10	A242	1.14	3'-7⅝"	5	A242	1.14	2'-4⅜"	A242	1.14	4³⁄₈"	A242	1.14	7⅝"	—	—	—	4	A242	1	1.14	2'-9½"	DS6	A242	.75	2'-9½"	DS10	A242	.92	3'-7⅝"	DS3	A242	.75	2'-6⅝"

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY		
FLOOR TRUSS C32T30N 57'-9" OVERALL		
WORLD TRADE CENTER TOWERS A&B		
FABRICATION BY: LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-27	PLATE
APPROVED FOR FABRICATION BY: ____ FOR PONYA. DATE ____	DRAWN BY R.B. DATE JAN. 20 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE 1	CHECKED BY T.H.CHUNG DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST230N



ALL PANEL POINTS RESISTANCE
ARC WELDS INDICATED AT SEAL
AND AT BOTTOM CHORD WEB
ALL WELD DETAILS SHOWN ON
ST291, ST292, ST293, ST294 &
CHORD PLATE DETAILS SHOWN ON
SEE SHEET ST285 FOR V1 & V3 DE
LETTERS IN HEXAGON INDICATE
LETTERS AND NUMBERS IN SQUA
SISTANCE WELD STRENGTH DE
QUALITY CONTROL PROGRAM

NO.	DATE	REVISION	BY
4	3-11-69	AS NOTED	G.D.C.
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF DRWG.

7-A81-28	1-6-68
7-A81-52	2-15-68
7-A84-14	1-3-68
7-A81-54	11-26-68
7-A81-53	7-23-68
7-A83-70	11-29-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF R	FILLER NO	DIA	CONNECTION PLATE NO	DIA	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	MK
C32T31-59075	6	A242	2"x1½"x3/8"	52'-10 1/8"	6	A36	4"x2"x3/8"	52'-10 1/8"	3	A242	1¼	56'-0 3/4"	5K @ 3'-4" = 30'-0"	12	1¼	4	1¼	-3"	CP2	A36	4"x1/2"	48'-10"	58
									3A	A242	1¼	40'-11 7/8"	4K @ 3'-4" = 21'-8"									

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "S" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "S" STRUT MK	TYPE STEEL	DIA	LENG	END STIFFENER MK V1 TYPE STEEL	DIA	LENGT	END STIFFENER MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
E2 END	C32T31-59075	9	A242	2"x1½"x3/8"	8'-3"	6'-1½"	1	A242	1¼	6'-3½"	2	A242	1¼	2'-4⅞"	A242	⅝	0'-4⅞"	A242	1¼	2'-8½"	DS1	A242	.92	6'-3 1/8"	DS2	A242	.75	2'-6 1/16"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQD)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (3 REQD)	WEB "WV" MK	TYPE STEEL	POS	DIA	LENGTH	WEB "WV" MK	TYPE STEEL	NO	DIA	LENGTH
	E1 END	C32T31-59075	8	A242	2"x1½"x3/8"	9'-10"	1'-1"	DS3	A242	.98	2'-8 3/16"	—	—	—	—	A242	1¼	4 3/8"	—	—	—	—	—	8	A242	1	1¼	2'-8 1/16"

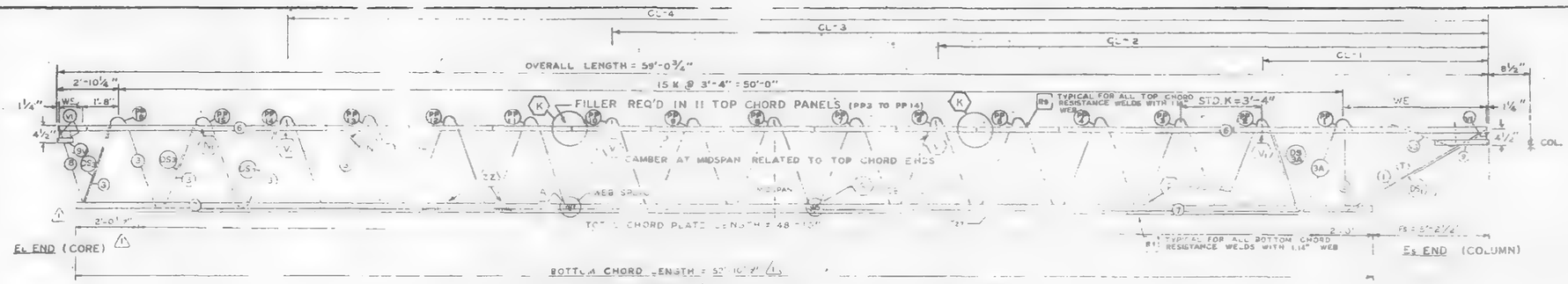
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 7/8"	20'-10 1/4"	36'-2 1/8"	49'-6 1/2"	5'-2 1/8"

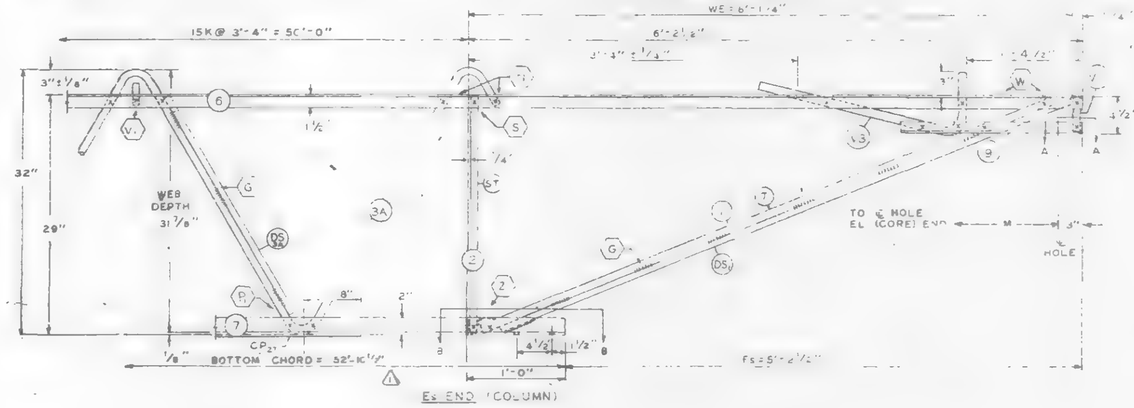
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

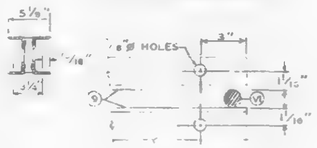
FLOOR TRUSS C32T31- 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

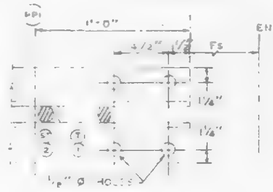
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A81-22
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 3/24/69
DRAWN BY: [illegible] DATE JAN. 21, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: F.M. CHURA DATE JAN. 21, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. ST 231



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± .8"
DESIGN DEPTH	29'	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3"
WEB DEPTH	31 7/8"	± 1/8"



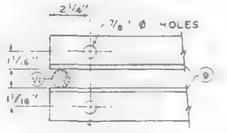


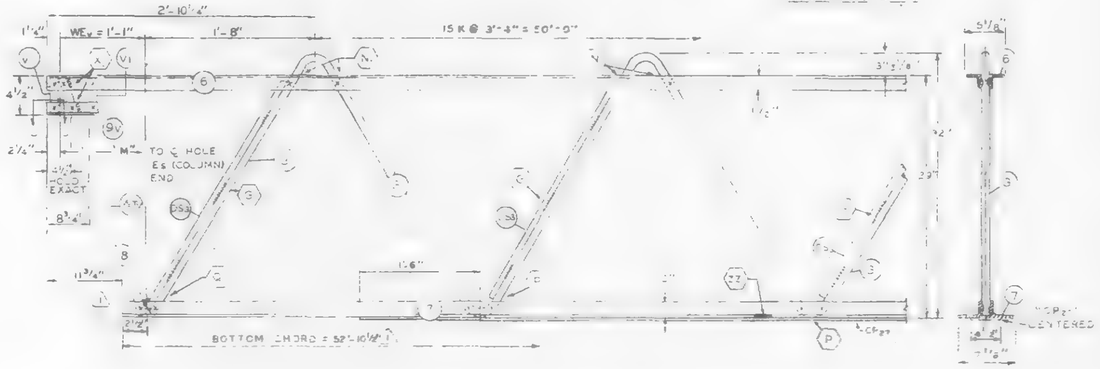


ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD SPLICE END IN FIELD ASSEMBLY BY CONTRACT W.T.C 223.00.





NO.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C

REF. DRWG.

7-ABI-28	1-6-68
7-ABI-52	2-15-68
7-ABI-14	1-3-68
7-AB-15	1-25-68
7-ABI-53	1-22-68
7-ABI-70	11-25-68

PAINT
GLIDDEN ELECTROCOAT
RED NO. 10001

DESIGNATION	ANGLES	WEB	DOUBLE STRUT				DOUBLE STRUT			
			MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
TOP			DS1	A242	.52	6'-3 7/8"	DS2A	A242	.75	2'-6 3/4"
END										

TRUSS DESIGNATION	BEARING ANGLE	WEB	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEB "WL"	WEB "WV"	
TOP								
END								

CHECK DIMENSION FOR TRUSS FAB.

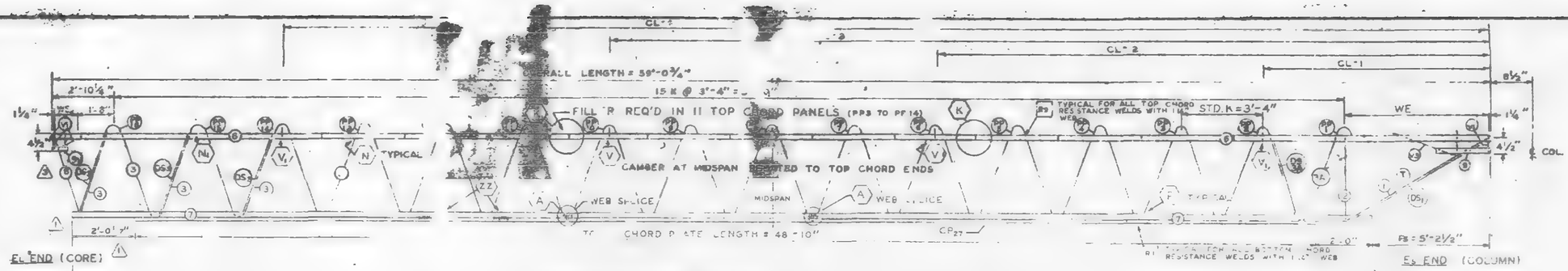
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
0-6"	22-10½"	36'-2⅛"	49'-6½"	5'-2½"

2/19/69 SK

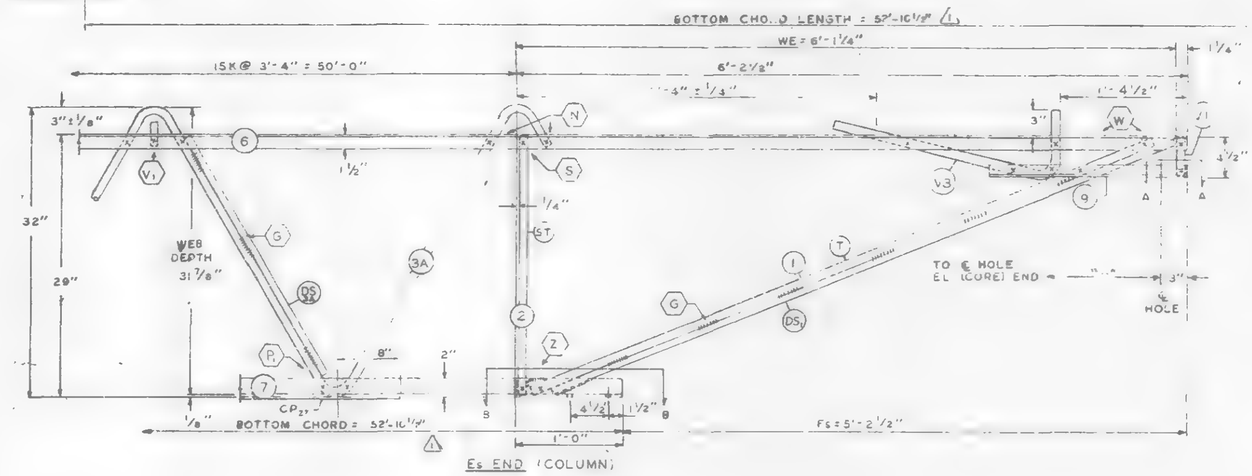
STEEL TRUSS DETAILS
FOR
TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

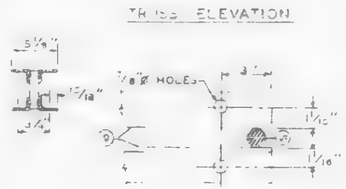
FLOOR TRUSS U32'3 — 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

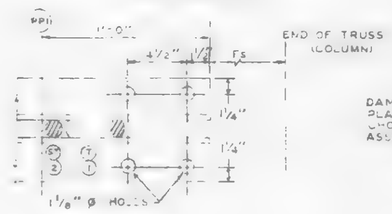
STEEL FABRICATOR	
SHOP DRAWINGS NO.	7-ABI-28
DRAWN BY	DATE JAN 2, 1969
CHECKED BY	DATE JAN 21, 1969
FABRICATION CONT. NO.	221
DETAILED BY	A. CARL WEBER
SHEET NO.	ST 231

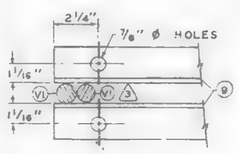


FABRICATION POINTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	- 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4

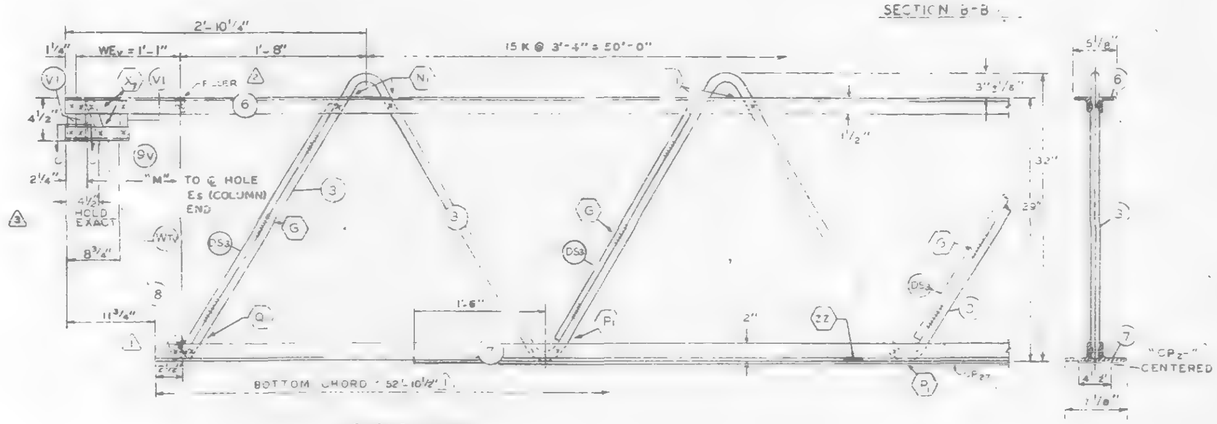








SECTION C-C



SECTION B-B

NO.	DATE	REVISION	BY
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

ALL PANEL POINTS RESISTANCE WELDED (R) ARC WELDS INDICATED AT WELDED AREAS AND AT BOTTOM CHORD WEB SPLICES (WWWW) ALL WELD DETAILS SHOWN ON SHEETS ST291, ST292, ST293, ST294 & ST287. (3)

CHORD PLATE DETAILS SHOWN ON SHEET ST287. SEE SHEET ST296 FOR TYPICAL DETAILS LETTERS (A) REFER TO CHORD PLATE WELD DETAILS, ie., (A) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., 2-1

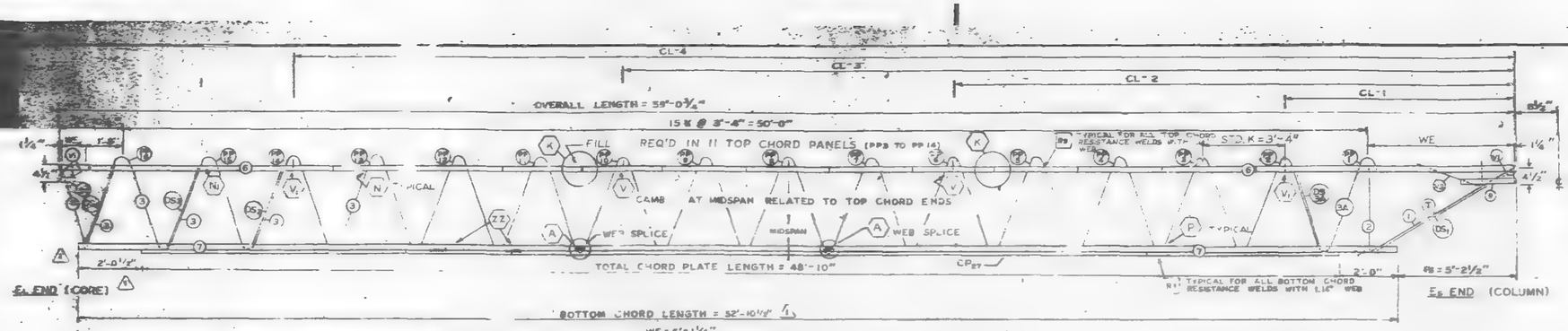
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

REF. DRWG.

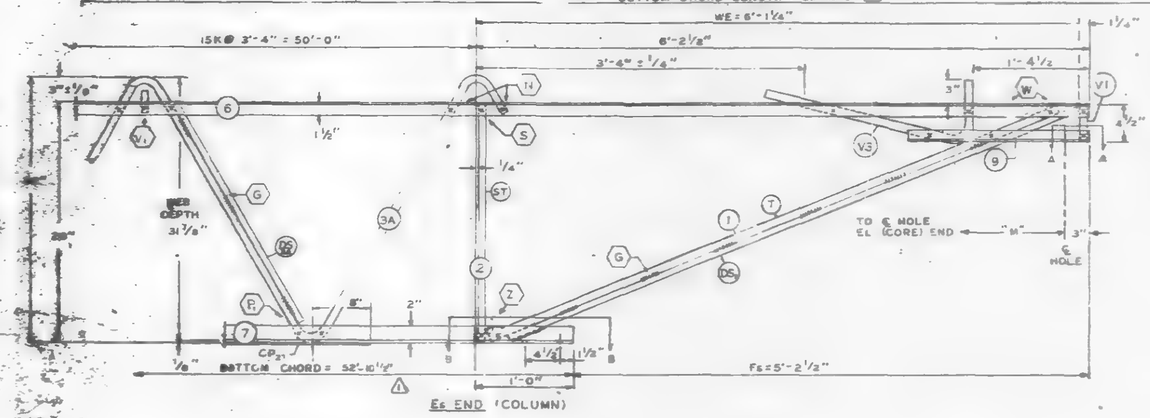
7-AB1-28	1-6-68
7-AB1-52	2-15-68
7-AB4-14	1-3-68
7-AB-54	11-25-68
7-AB1-53	1-22-68
7-AB3-70	11-25-68

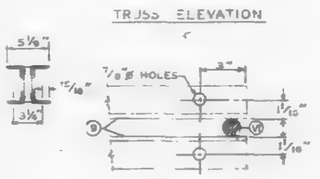
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

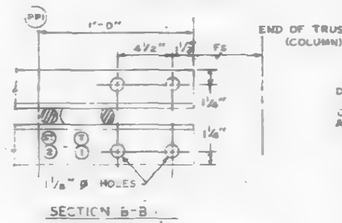
| TRUSS DESIGNATION | TOP CHORD ANGLES | | | | | | | MAIN WEB MEMBERS | | | | | | |



FABRICATION REQUIREMENTS		
	THEORETICAL	CAMBERED
CAMBER AT MIDSPAN		± 1/4"
DESIGN DEPTH	3'-4"	± 1/8"
PANEL "K"	3'-4"	± 1/8"
OVERALL LENGTH	59'-0¾"	-1/8"
WEB DEPTH	31 7/8"	± 1/4



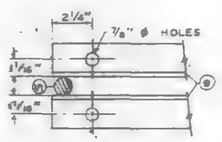


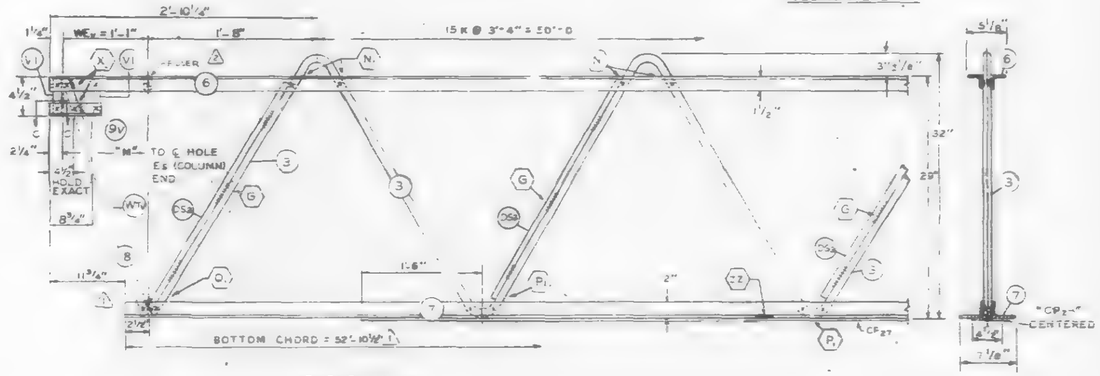


ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmm)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.





NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-ABI-28	1-6-69
7-ABI-82	2-15-69
7-ABI-14	1-3-69
7-ABI-54	8-25-68
7-ABI-55	7-22-68
7-ABI-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "A" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF P	FILLER CONNECTION FILLER NO.	DIA.	NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	THK.	LENGTH	"M" ⅞ HOLES
C32T31-58075	6	A242	2"x1½"x.37"	59'-¾"	4	A36	5"x4"x.37"	52'-10½"	3	A242	1¼	56'-0¾"	5K @ 3'-4" = 50'-0"						CP27	A36	2-PL.38	48'-10"	58'-½"
									3A	A242	1¼	40'-11½"	6K @ 3'-4" = 21'-8"	2	1¼	4	1¼	0'-3"					

COLUMN END E5	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	LENGTH	MK.	TYPE STEEL	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T31-58075	9	A242	2"x1½"x.37"	1'-10"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	0'-4⅞"	A242	1.14	3½"	DS1	A242	.92	6'-3⅛"	DS2	A242	.75	2'-6¾"

CORE END E8	TRUSS DESIGNATION	BEARING ANGLE MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	WEB "WDV" MK.	TYPE STEEL	DIA.	LENGTH	WEB "WIV" MK.	TYPE STEEL	DIA.	DIA.	LENGTH
	C32T31-58075	9V	A242	2"x1½"x.37"	0'-10"	1'-1"	DS2	A242	.98	2'-8¾"	—	—	—	—	A242	1.14	4'-3⅞"	—	—	—	—	—	8	A242	1	1.14	2'-8¾"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2⅛"	49'-6⅛"	5'-2⅛"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T31 59'-0¾" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 1-24-69

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

DETAILED BY: A. CARLSON

DESIGN DRAWING NO. 7-ABI-28

DRAWN BY: Jac DATE JAN. 21, 1969

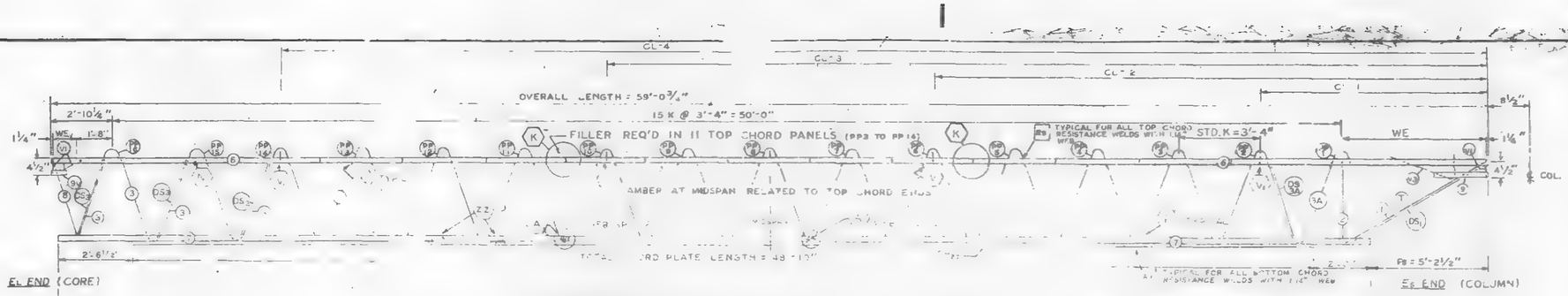
CHECKED BY: T.M.CORREA DATE JAN. 21, 1969

FABRICATION CONT. NO. W.T.C. 221

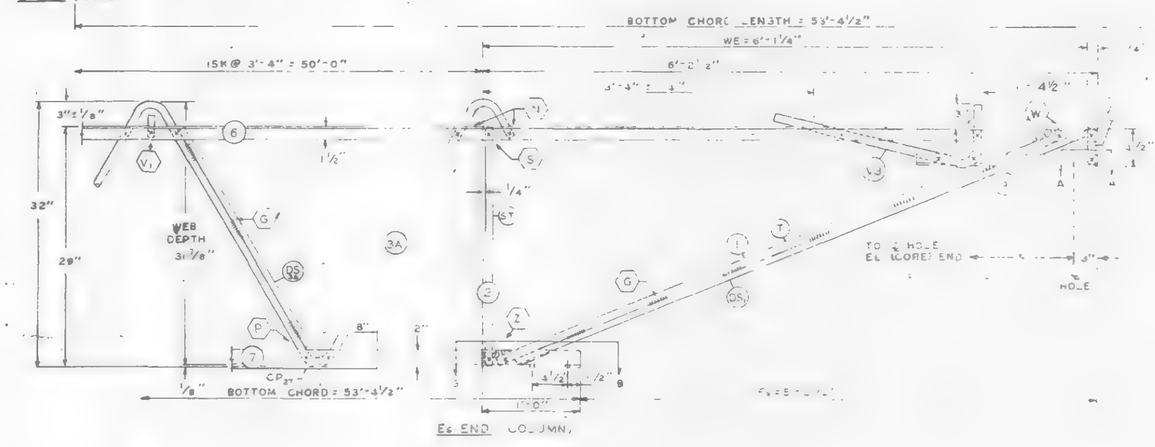
PLATE 1

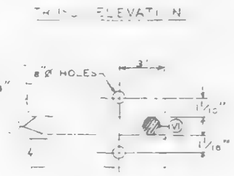
IN CHARGE OF PROD. REV.

SHEET NO. ST 231



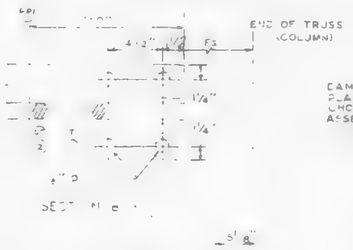
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3 9"
DESIGN DEPTH	29"	± 1/4"
PANEL K"	3'-4'	± 1/4"
OVERALL LENGTH	5	± 3/8'
WEB DEPTH	3' 9"	± 1/ -



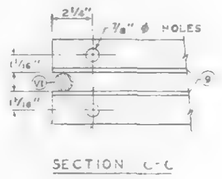


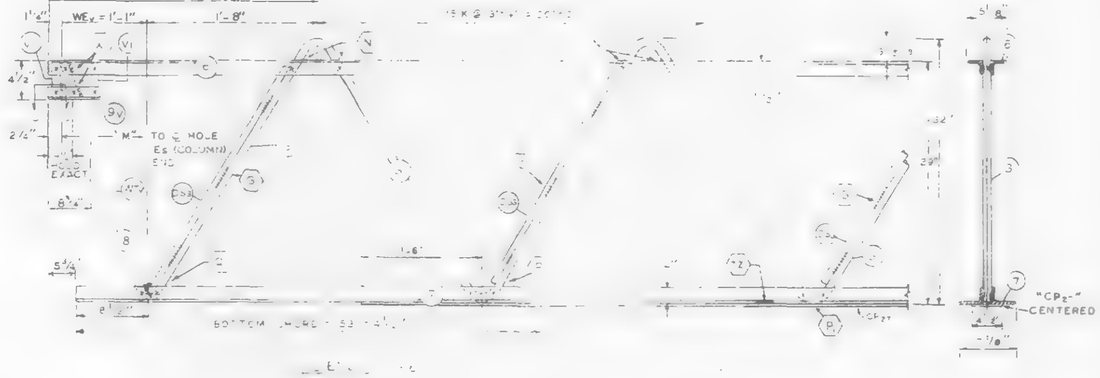
ALL PANEL POINTS RESISTANCE WELDED (R) - ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (SHOWN). ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287. SEE SHEET ST296 FOR V1 & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1



CAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.





NO.	DATE	REVISION	BY

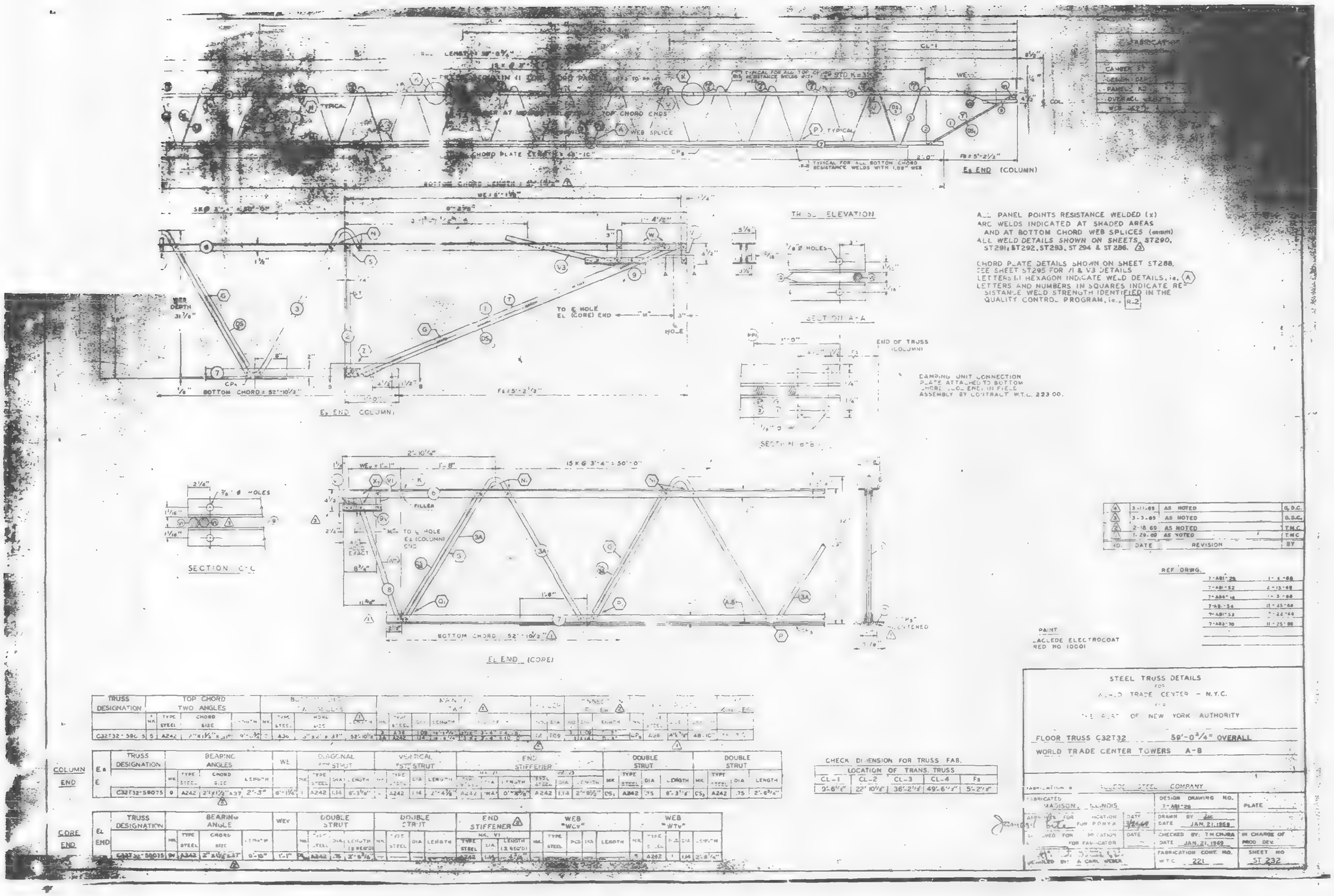
REF DRWG.

7-AB1-28	11-6-68
7-AB1-52	4-15-68
7-AB4-16	7-3-68
7-AB1-54	11-25-68
7-AB1-54	11-22-68
7-AB3-70	11-25-68

VOID.

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

| TRUSS DESIGNATION: | | |



ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (minimum)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294 & ST286. (A)

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS in HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R-2

PAINT
LAGLEDE ELECTROCOAT
RED NO 10001

NO.	DATE	REVISION	BY
4	3-11-69	AS NOTED	G.D.C.
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-20-69	AS NOTED	T.M.C.

REF. DRWG.

7-AB1-29	1-6-68
7-AB1-52	2-15-68
7-AB6-14	1-3-68
7-AB1-34	11-25-68
7-AB1-53	7-22-68
7-AB3-30	11-25-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD MK.	TYPE STEEL	HOLE NOS.	LENGTH	WEB MEMBERS MK.	TYPE STEEL	SIZE	LENGTH	WEB MEMBERS MK.	NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T32-58G 5	5	A242	2"x1 1/2"x 3/8" A37	9'-0"	7	A36	9"x2"x 37"	52'-10 1/2"	3 / 3A	A36 / A242	10 / 1 1/8	7'-4 1/2" / 7'-4 1/2"	12	1.09	3 / 1.09	5'-1" / 5'-1"	P5	A36	14"x1 1/2"	48.10"

COLUMN END E6	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DIAGONAL "D" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1	TYPE STEEL	DIA.	LENGTH	MK. V3	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T32-58G7S	9	A242	2"x1 1/2"x 3/8" A37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	1	A242	1.14	2'-4 7/8"	A242	WAS 0" NOW 3 1/8"	1.14	2'-10 1/2"	DS1	A242	.75	6'-3 1/8"	DS3	A242	.75	2'-8 3/4"				

CORE END E1 END	TRUSS DESIGNATION	BEARING ANGLE MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	WEB "WCV" MK.	TYPE STEEL	POS.	NO.	LENGTH	WEB "WTV" MK.	TYPE STEEL	DIA.	LENGTH
	C32T32-58G1S	9V	A242	2" x 1 1/2" x 3/8" A37	0'-10"	1'-1"	1	A242	.75	2'-8 3/4"														9	A242	1	1.14	2'-8 3/4"

CHECK DIMENSION FOR TRUSS FAB.

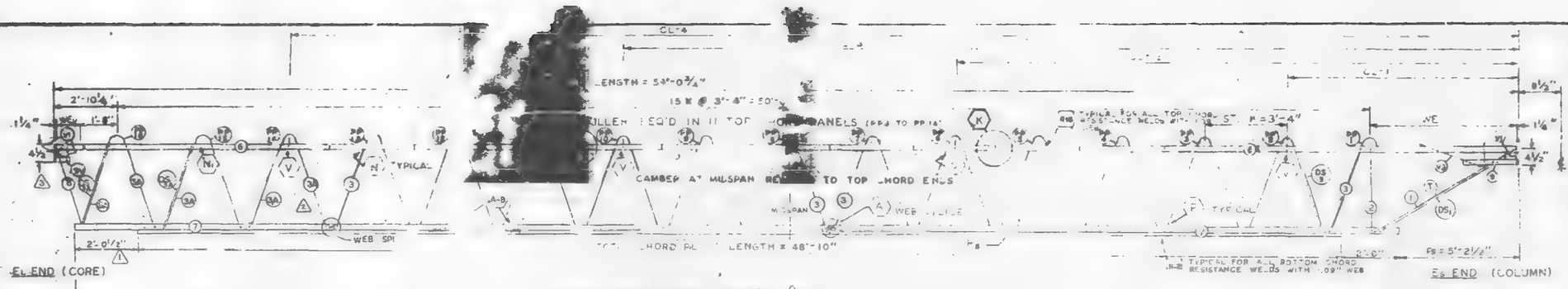
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/8"	22' 10 1/8"	36'-2 1/8"	49'-6 1/8"	54'-2 1/8"	

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

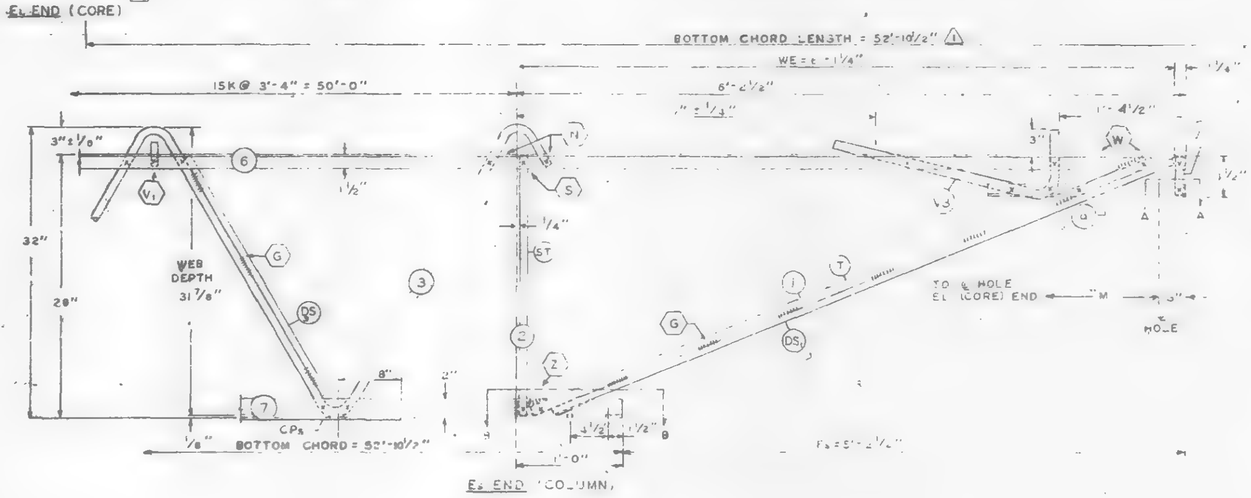
FLOOR TRUSS C32T32 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

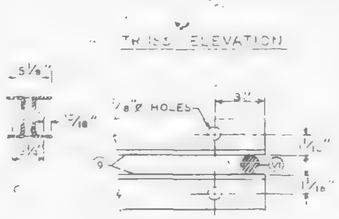
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED: MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA — DATE 1/24/69
APPROVED FOR FABRICATION — DATE
APPROVED BY: A. CARL WEBER

DESIGN DRAWING NO.	7-AB1-29
PLATE	
DRAWN BY	MC
DATE	JAN. 21, 1969
CHECKED BY: T.M.CHUBA	
DATE	JAN. 21, 1969
IN CHARGE OF PROD. DEV.	
FABRICATION CONT. NO.	
W.T.C.	221
SHEET NO.	ST 232



FABRICATION RE S		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	0"	± 1/8"
DESIGN DEPTH	32"	± 1/32"
PANEL "K"	40"	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3/8"
WEB DE H	8"	± 1/4

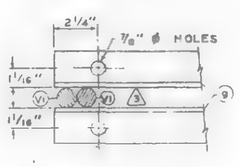


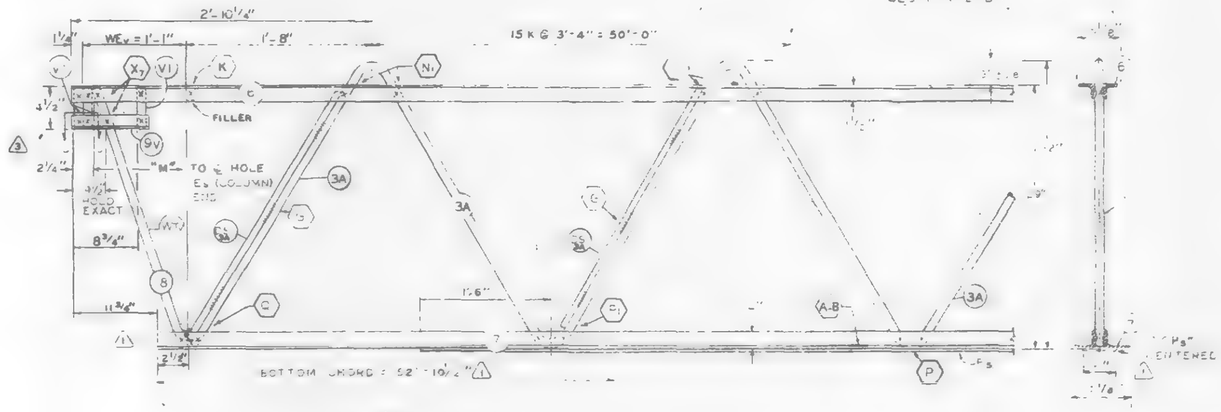


ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (manual)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294 & ST286. (3)

CHORD PLATE DETAIL SHOWN ON SHEET ST288.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERED HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-2

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CLOSING) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.





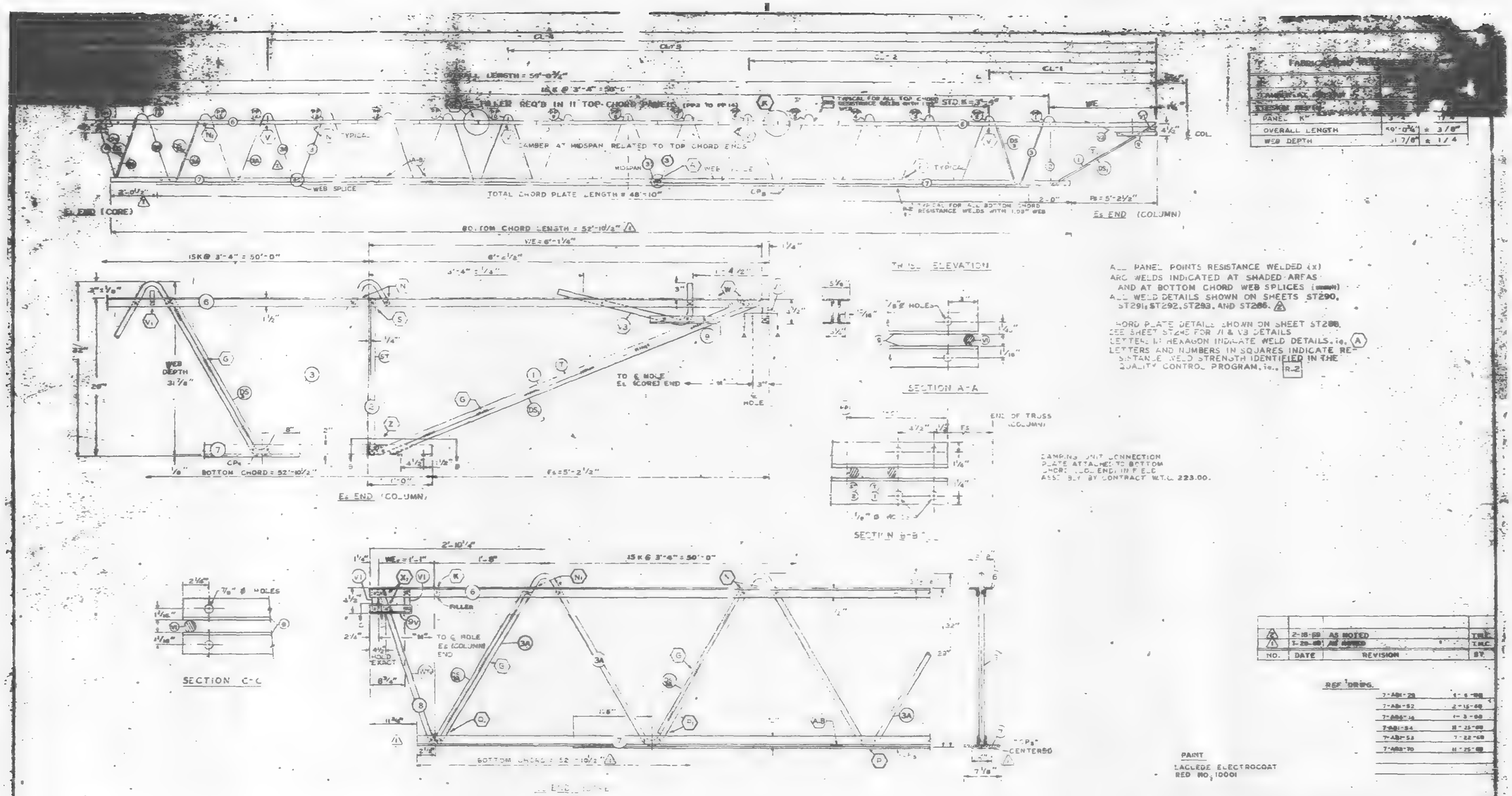
NO.	DATE	REVISION	BY
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.N.C.
1	1-28-69	AS NOTED	T.N.C.

REF. DRWG.

7-AB1-29	1-6-69
7-AB1-52	2-15-69
7-AB4-14	1-3-69
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB1-70	11-25-68

PAINT
LACLEDE ELECTROCOAT RED NO 10001

| TRUSS DESIGNATION | TOP CHORD | | |



FABRICATION TOLERANCES		
PANEL K"		
OVERALL LENGTH	<59'-0 3/4"	± 3/8"
WEB DEPTH	≥ 31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST286. ⚠

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST286 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R-2

CAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COLUMN END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
⚠	2-18-69	AS NOTED	TMC
⚠	1-29-69	AS NOTED	TMC

REF. DRWG.

7-ABI-29	1-6-68
7-ABI-52	2-15-68
7-ABM-16	1-3-68
7-ABI-54	11-25-68
7-ABI-53	7-22-68
7-ABB-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD				WEB MEMBERS ⚠								WEB MEMBERS ⚠							
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH ⚠	MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH	
C32T32-59075	6	A242	2"x1½"x.237"	59'-10"	3A	A36	5"x½"	52'-10 1/8"	3	A36	L09	78-3/4"	W2x	3'-4"	=4'-8"	2	10	3	19	6	3'-3"	LF8	4'-3 1/8"	48'-10"
						A242			14			78-6 3/4"	13	6x	3'-4"	=46'-8"								

TRUSS DESIGNATION	BEARING ANGLES				WEB MEMBERS ⚠												DOUBLE STRUT				DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	DIA	LENGTH
C32T32-59075	9	A242	2"x1½"x.237"	0'-5"	12	A242	6'-1 1/4"		13	A242	6'-3 7/8"		14	A242	1'-4 7/8"		15	A242	0'-4 7/8"		DS1	A242	.75	5'-3' 8"
																					DS2	A242	.75	2'-6 3/4"

TRUSS DESIGNATION	BEARING ANGLE				WEB	DOUBLE STRUT			DOUBLE STRUT			END STIFFENER			WEB "W1"				WEB "W2"			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	MK. V1 TYPE STEEL	t	LENGTH (2 REQ'D)	MK.	TYPE STEEL	LENGTH		MK.	TYPE STEEL	t	LENGTH
C32T32-59075	9W	A242	2"x1½"x.237"	0'-10"	11'-1"	DS1	A242	.75 2'-6 3/4"	—	—	—	—	A242	1.08	4 4/8"	—	—	—	8	A242	1	1.08	2'-6 3/4"

CHECK DIMENSION FOR TRUSS FAB.

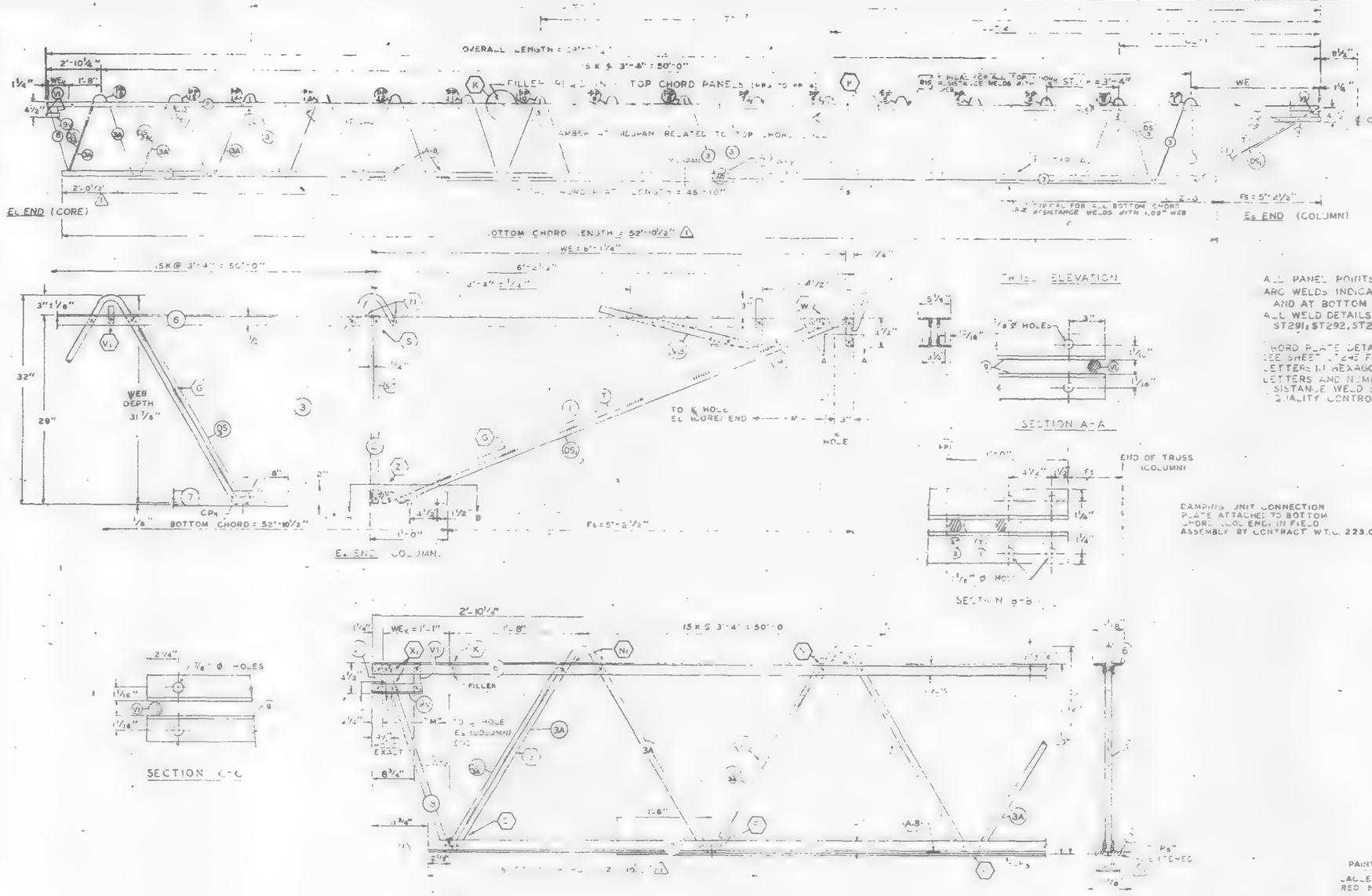
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6' 5"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/2"	

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 — 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-ABI-29	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 2/24/69	DRAWN BY JK DATE JAN. 21, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY: T.M. CHUKA DATE JAN. 21, 1969	IN CHARGE OF PROD. TECH.
DETAILED BY A. CHRISTENSEN		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 282



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 3/8
WEB DEPTH	31 7/8"	1/4

ALL PANEL POINTS RESISTANCE WELDED (R) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST246 FOR V1 & V2 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-2

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

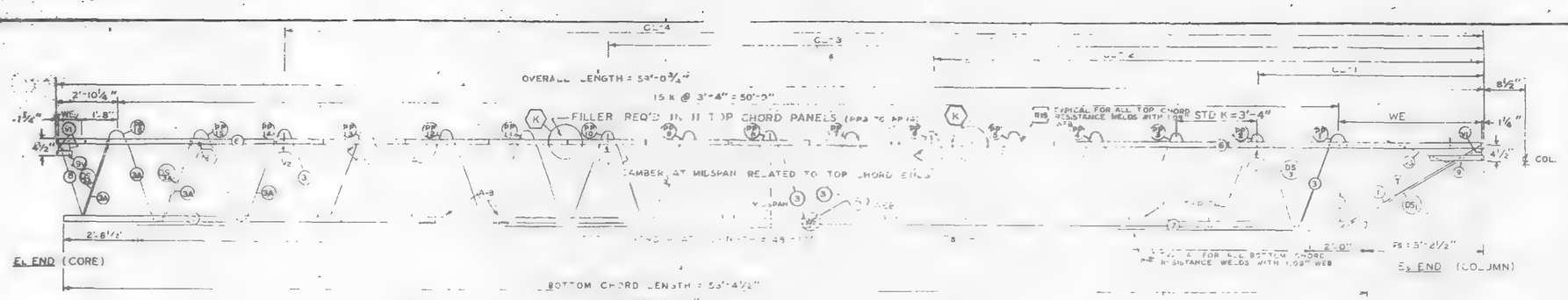
NO.	DATE	REVISION	BY
1	1-29-69	AS NOTED	T.M.C

REF. DRWG.

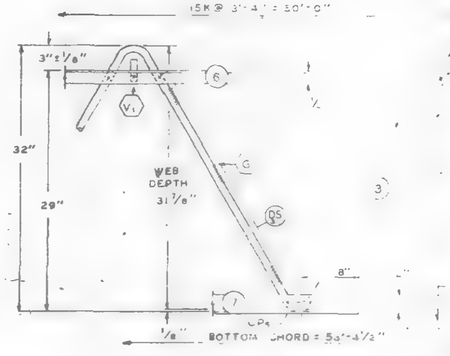
7-AB1-29	1-16-68
7-AB-52	4-15-68
7-AB-14	1-3-68
7-AB-54	11-20-68
7-AB-53	7-22-68
7-AB2-70	11-25-68

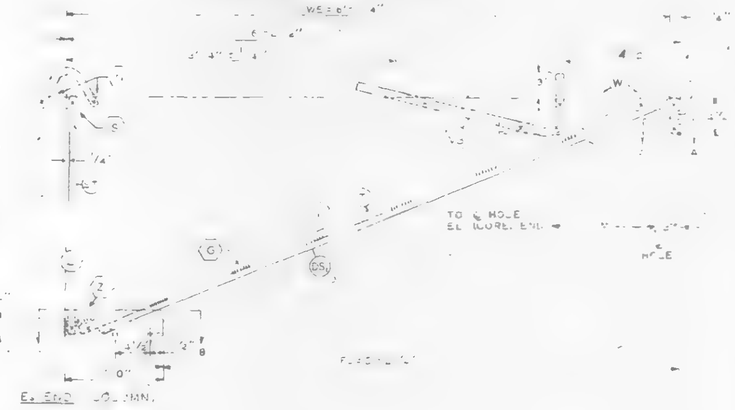
PAINT
LACLEDE ELECTROCOAT
RED NO 10001

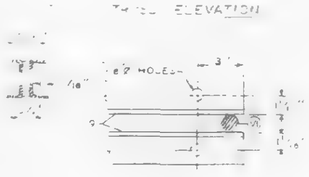
| TRUSS DESIGNATION | WEB MEMBERS | | |

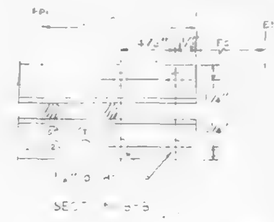


FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	+ 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K"		± 1/4"
OVERALL ENGTH	-0 3/4"	± 3/8"
WEB DEPTH	31 7/8"	± 4





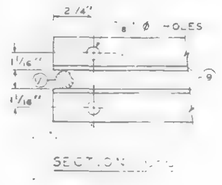


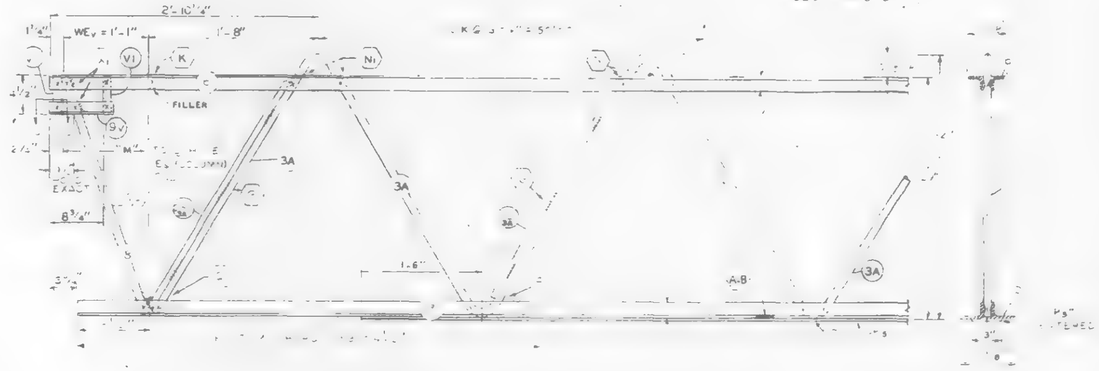


ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB PLICES (xxxxxxx)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST291 FOR W1 & V1 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R-2

CAMBER UNIT CONNECTION
PLATE ATTACHED TO BOTTOM CHORD AT COL. END IN FIELD
ASSEMBLY BY CONTRACT W.T.C. 223.00.





NO.	DATE	REVISION	BY

VOID

REF DRWG.	
7-AB1-28	1-6-68
7-AB1-52	2-15-68
7-AB4-14	-3-68
7-AB1-54	12-26-68
7-AB1-53	" 22-68
7-AB3-70	11-25-68

PAINT
LAC-EDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TYPE & SIZE OF STEEL																					
	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL
C32T32-59075	6	A242	x 1/2"	53'-6 1/2"	3	A36	1.09	81'-10 1/4"	13 K @ 3'-4" = 43'-4"													
					3A	A242		15'-6 7/8"	12 K @ 3'-4" = 8'-4"													

COLUMN END	E6 END	TRUSS DESIGNATION	TYPE & SIZE OF STEEL												DOUBLE STRUT				DOUBLE STRUT			
			MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T32-59075	9	A242	2" x 1/2" x 2'-3"		15	A242		6'-3 1/8"	14	A242		6'-5 7/8"	DS1	A242	.75	6'-3 1/8"	DS2	A242	.75	2'-6 3/16"

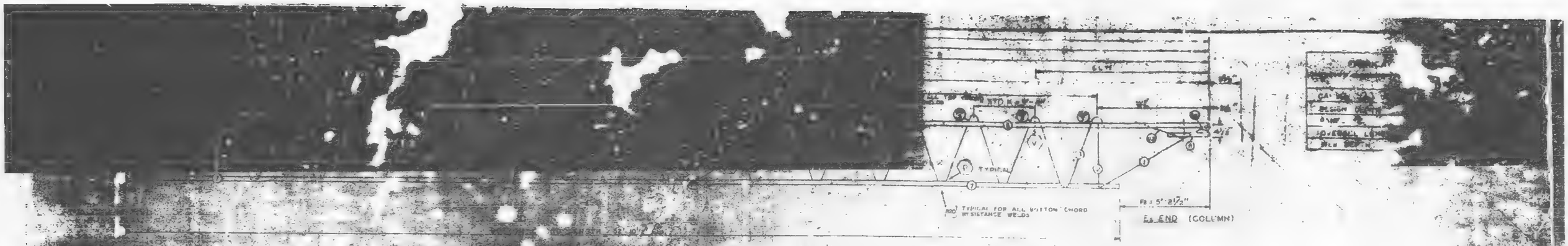
CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLE			WEB	DOUBLE STRUT		DOUBLE STRUT		END STIFFENER		WEB "WEV"			WEB "WTV"			
											TYP.								
											STEEL								
		C32T32-59075	9V	A242	2" x 1/2" x 1'-3"	0'-10"	DS3	A242	.75	2'-3 3/4"	A242	1/4	4 3/16"			8	A242	1/4	25'-6 1/4"

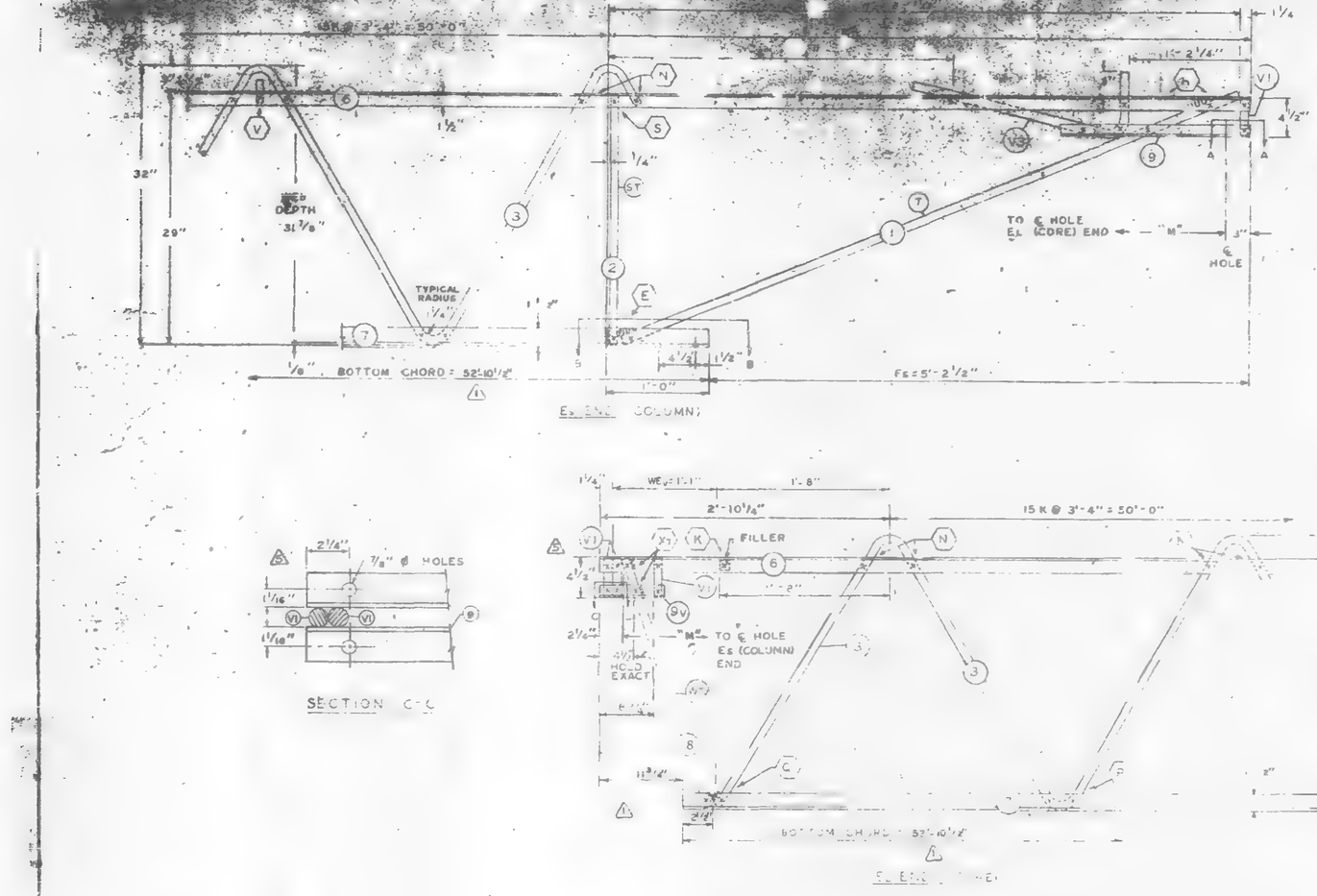
CHECK DIMENSION FOR TRUSS FAB.					
LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	FS	
0'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"	

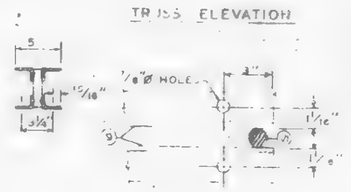
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

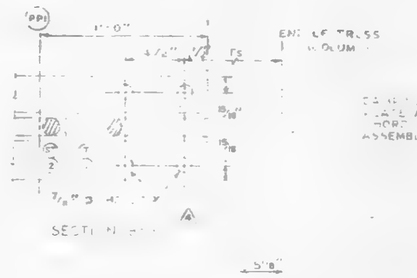
FLOOR TRUSS C32T32 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-8

FABRICATION BY LACLEDE STEEL COMPANY
FREE DATED
AT MADISON
DESIGN DRAWING NO. 7-Ag1-29
APPROVED FOR FABRICATION BY FOR LACLEDE DATE
DRAWN BY Joe DATE JAN. 21, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE JAN. 21, 1969
IN CHARGE OF PROJECT
DETAILED BY IN CHARGE
FABRICATION CONT NO W.T.C. 221
SHEET NO. ST 232





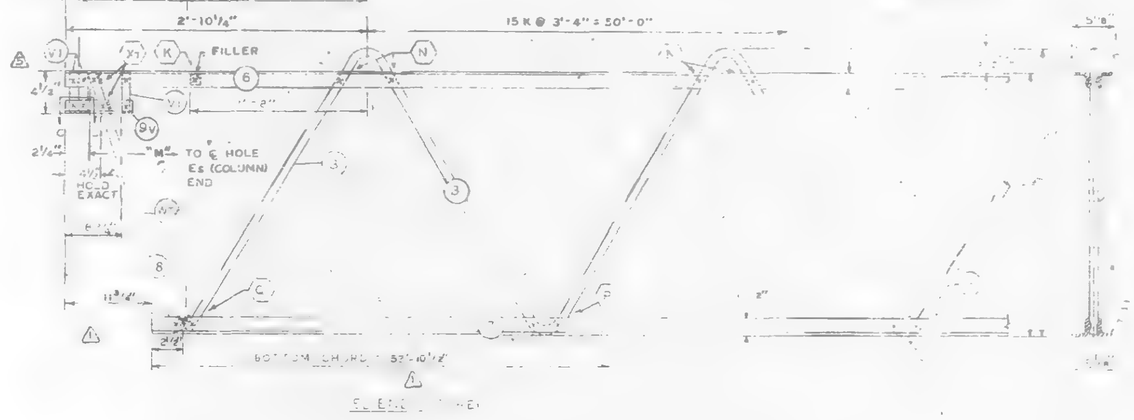




ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (WMK1)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294.

SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R21

DETAIL OF CONNECTION PLATE ATTACHED TO BOTTOM CHORD SPLICE IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



TRUSS DESIGNATION	TOP CHORD ANGLES						MAIN MEMBER "A"								CONNECTION PLATE				ANGLES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	LENGTH
C32T33-59075	6	A242	2"x1½"x.37"	54'-3½"	7	A242	2"x1½"x.37"	52'-10½"	A	A36	1.09	97'-0"	E	A36	1.09	4	1.09	0'-3"	—	—	—	—

COLUMN END Es	TRUSS DESIGNATION	A																				
		MK.	TYPE STEEL																			
	C32T33-59075	9	A242	2"x1½"x.37"	1'-10"	6	1/4	A242	14			A242	14	2'-4⅞"	12	13	3'-4"	A24				1'-9½"

CORE END El	TRUSS DESIGNATION	BEARING ANGLE				WEv	DOUBLE STRUT			DOUBLE STRUT			END STIFFENER 3				WEB "WCV"				WEB "WTV" 2			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	O.A. LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PC.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T33-59075	9V	A242	2"x1½"x.37"	0'-10"		—	—	—	—	—	—	—	—	A36	1.09	4 3/8"	—	—	—	—	8	A36	1.09	2'-6 1/4"

					D.C.C.
4	2-26-69	AS NOTED			G.D.C.
3	2	AS NOTED			G.D.C.
2	2	AS NOTED			T.M.C.
1	2	AS NOTED			G.D.C.
MK.	NO.	REVISION			BY

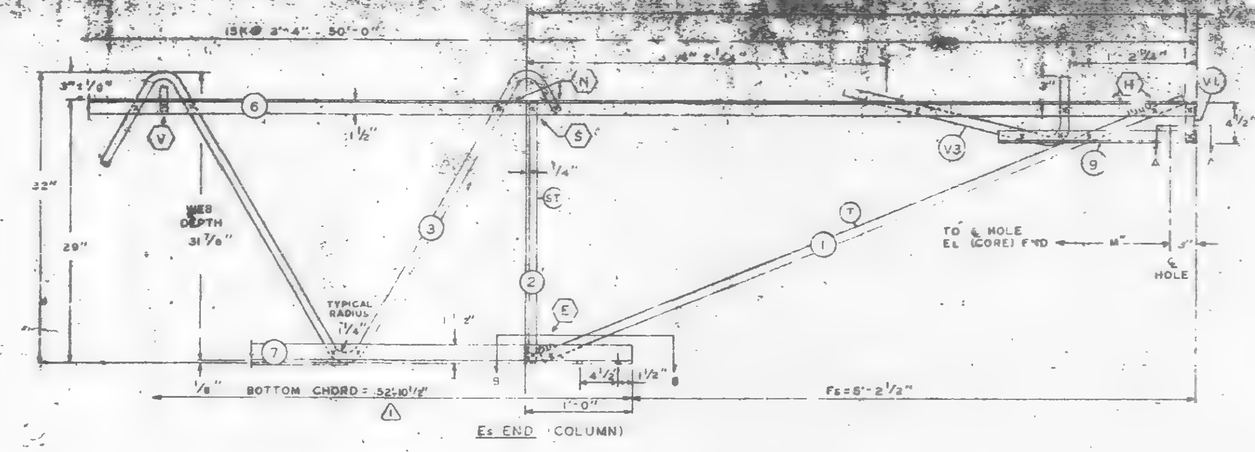
REF. DRWGS.

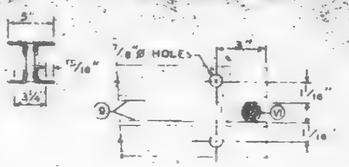
7-ABI-30	1-9-69
7-ABI-52	2-13-69
7-ABI-18	11-3-68
7-AB-54	1-25-68
7-ABI-53	7-24-68
7-ABI-20	11-25-68

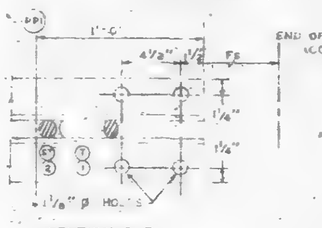
PAINT
INCLUDE E ELEV. DA
FILD NO. 1005

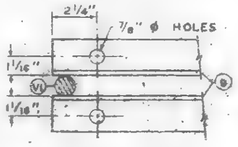
STEEL HOUSE DETAILS
A.P. TRADE CENTER - N.Y.C.
PORT AUTHORITY
FLOOR TRUSS C32T33 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

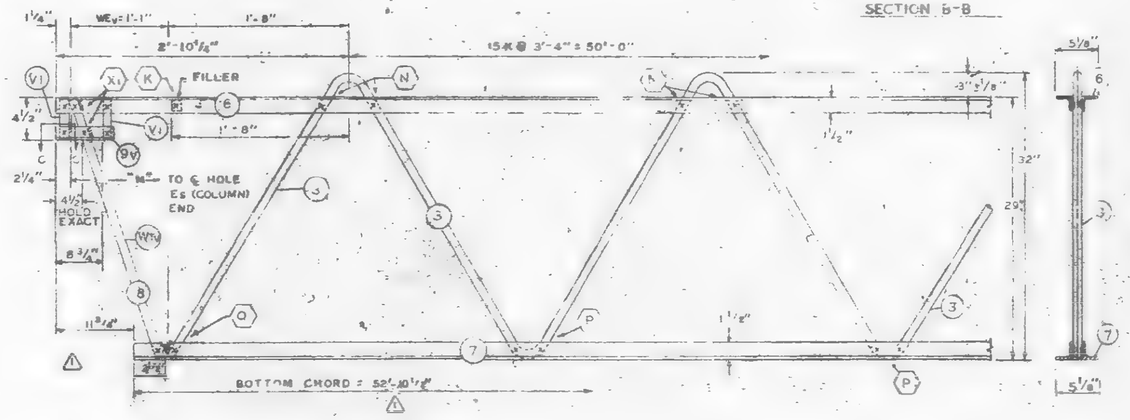
FABRICATED BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-ABI-30
PLATE
DESIGNED FOR FABRICATION BY [illegible] DATE
APPROVED FOR FABRICATION BY [illegible] DATE
DRAWN BY dc DATE JAN 23, 1969
CHECKED BY T. NISHIMURA DATE JAN 23, 1969
IN CHARGE OF PROJ. DEPT.
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST 293











ALL PANEL POINTS RESISTANCE WELDED (x). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (unless)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST29

SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R21

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION
3	8-21-69	AS NOTED
2	2-18-69	AS NOTED
1	1-31-69	AS NOTED

REF. DRWG.

7-SM-30	1-8-69
7-SM-33	8-18-68
7-SM-34	12-9-68
7-SM-35	11-21-68
7-SM-36	7-30-68
7-SM-38	11-18-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		CONNECTION FILLER		CHORD PLATE			1" ø HOLES
	NO.	TYPE STEEL	CHORD SIZE	LENGTH	NO.	TYPE STEEL	CHORD SIZE	LENGTH	NO.	TYPE STEEL	DIA.	LENGTH	NO. OF PL	NO.	DIA.	NO.	DIA.	LENGTH	NO.	TYPE STEEL	THICK	LENGTH	
C32T33-59075	6	A242	2"x1 1/4"x.25"	54'-0 3/4"	7	A242	2"x1 1/4"x.25"	52'-10 1/2"	3	A36	1.09	97"-0"	15 1/2 R @ 3'-4" = 51'-8"	11	1.09	4	1.09	0'-3"	—	—	—	—	—	58	7 1/2

COLUMN END	TRUSS DESIGNATION	TOP CHORD ANGLE				AF	DIAGONAL "D" STRUT				VERTICAL "S" STRUT				END "E"					
		NO.	TYPE STEEL	CHORD SIZE	LENGTH		NO.	TYPE STEEL	DIA.	LENGTH	NO.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	STEEL	LENGTH
E6 END	C32T33-59075	9	A242	2"x1 1/4"x.37"	2'-3"	6-1 1/4"	1	A242	1 1/4	6'-5"	2	A242	1 1/4	12'-4 7/8"	A242	1 1/4	0'-4 3/4"	A242	1 1/4	1'-9 1/2"

CORE END	TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER NO. VI			WEB "WV"				WEB "WTV"				
		NO.	TYPE STEEL	CHORD SIZE	LENGTH		NO.	TYPE STEEL	DIA.	LENGTH	NO.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	NO.	TYPE STEEL	NO.	DIA.	LENGTH	NO.	TYPE STEEL	NO.	DIA.	LENGTH
EL END	C32T33-59075	9V	A242	2"x1 1/4"x.37"	0'-10"		—	—	—	—	—	—	—	—	A36	1.09	4 3/8"	—	—	—	—	—	8	A36	1	1.09	2'-8 1/4"

CHECK DIMENSION FOR TRUSS FAB

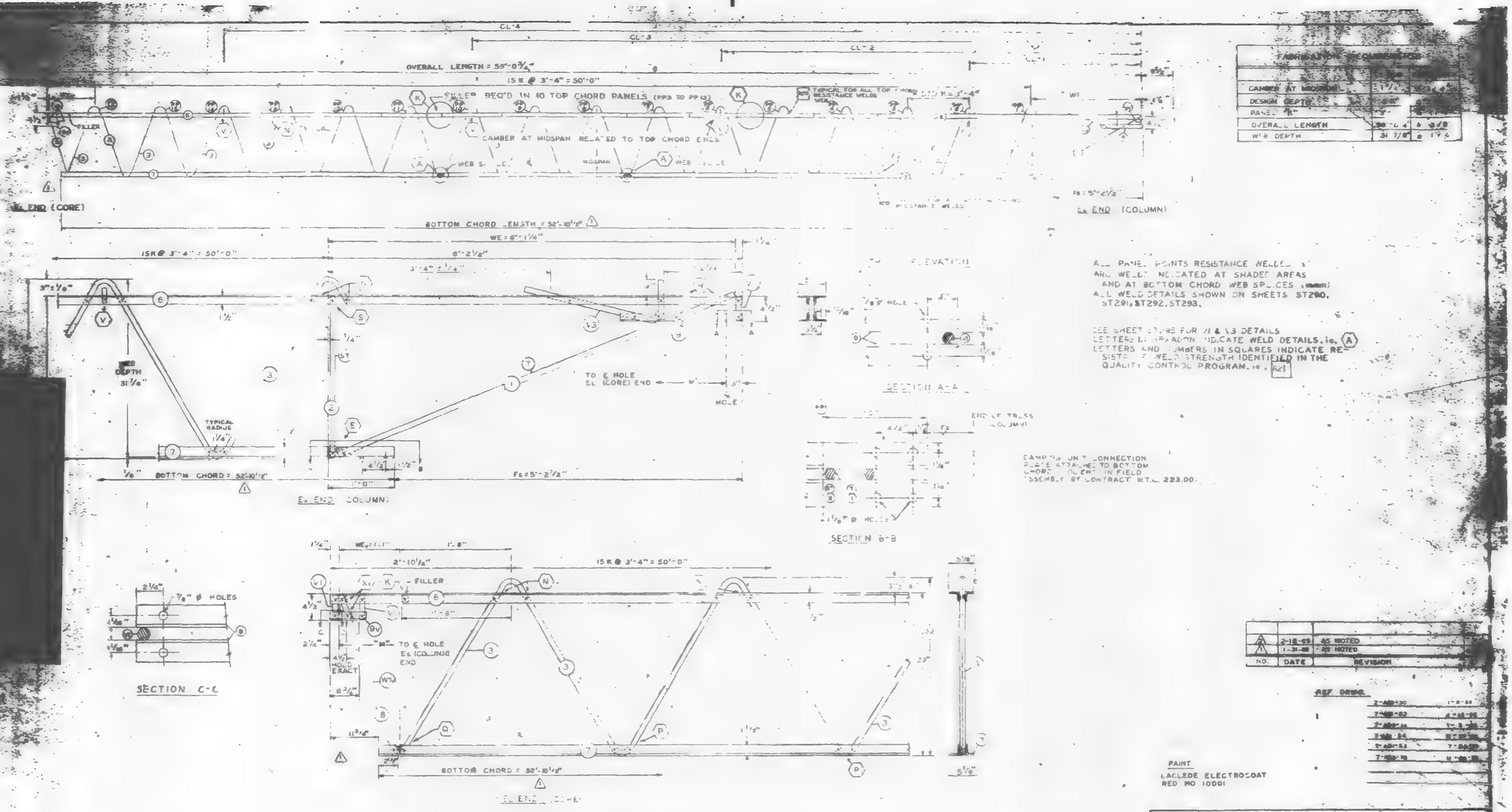
LOCATION OF TRANS TRUSS					
CL 1	CL 2	CL 3	CL 4	Fs	
9'-8 1/2"	22'-10 1/2"	36'-2 1/8"	49'-8 1/2"	5'-2 1/2"	

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 — 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE
DETAILED — CAR WEBER — LACLEDE STEEL CO.
DESIGN DRAWING NO. 7-AA-30
DRAWN BY — DATE JAN 23, 969
CHECKED BY T. MORRA — DATE JAN 23, 969
FABRICATION CONT. NO W.T.C. 221
PLATE
BY ORDER OF MOD DES.
SHEET NO



ALL PANEL POINTS RESISTANCE WELDED ▲
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (SHOP)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST292 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R21

CAMBER AT MIDSPAN 1 1/4"
DESIGN DEPTH 31 7/8"
PANEL 15 @ 3'-4"
OVERALL LENGTH 59'-0 3/4" & 3 3/8"
WEB DEPTH 31 7/8" & 1 1/4"

CAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD ASSEMBLED IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

PAINT
LACLEDE ELECTROCOAT RED NO 10001

NO.	DATE	REVISION
2	2-18-69	AS NOTED
1	1-31-69	AS NOTED

REF. DRWG.

2-ABF-30	1-8-68
7-ABF-62	4-16-68
2-ABF-14	11-8-68
1-ABF-24	11-22-68
1-ABF-53	7-24-68
7-ABF-78	11-26-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TOP CHORD TWO ANGLES TYPE STEEL	TOP CHORD TWO ANGLES CHORD SIZE	TOP CHORD TWO ANGLES LENGTH	BOTTOM CHORD TWO ANGLES MK.	BOTTOM CHORD TWO ANGLES TYPE STEEL	BOTTOM CHORD TWO ANGLES CHORD SIZE	BOTTOM CHORD TWO ANGLES LENGTH ▲1	MAIN WEB "A" MK.	MAIN WEB "A" TYPE STEEL	MAIN WEB "A" LENGTH	FILLER MK.	FILLER THK.	FILLER LENGTH	CONNECTION PLATE MK.	CONNECTION PLATE TYPE STEEL	CONNECTION PLATE THK.	CONNECTION PLATE LENGTH	"A" ½" HOLES
C32T33-59075	6	A242	2"x1½"x.24"	59'-3¼"	3	A36	2"x1½"x.25"	52'-10½"	3	A36	1.09	87'-0"	15½"@3'-4"=51'-6"	11	1.09	4	1.09	0'-3"	—	—	—	—	56

TRUSS DESIGNATION	BEARING ANGLES MK.	BEARING ANGLES TYPE STEEL	BEARING ANGLES CHORD SIZE	BEARING ANGLES LENGTH	AE	DIAGONAL "D" STRUT MK.	DIAGONAL "D" STRUT TYPE STEEL	DIAGONAL "D" STRUT DIA	DIAGONAL "D" STRUT LENGTH	VERTICAL "S" STRUT ▲ MK.	VERTICAL "S" STRUT TYPE STEEL	VERTICAL "S" STRUT DIA	VERTICAL "S" STRUT LENGTH	END STIFFENER MK.	END STIFFENER TYPE STEEL	END STIFFENER DIA	END STIFFENER LENGTH	END STIFFENER MK.	END STIFFENER DIA	END STIFFENER LENGTH
C32T33-59075	B	A242	2"x1½"x.37"	11'-10"	6'-11¼"	1	A242	1¼	6'-5"	2	A242	1¼	2'-4⅜"	A1	A242	1¼	0'-4⅜"	A2	—	2'-9½"

TRUSS DESIGNATION	BEARING ANGLE MK.	BEARING ANGLE TYPE STEEL	BEARING ANGLE CHORD SIZE	BEARING ANGLE LENGTH	WEV	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH	DOUBLE STRUT MK.	DOUBLE STRUT TYPE STEEL	DOUBLE STRUT DIA	DOUBLE STRUT LENGTH	END STIFFENER ▲ MK. V1 TYPE STEEL	END STIFFENER ▲ MK. V1 DIA	END STIFFENER ▲ MK. V1 LENGTH (C TO C REQ'D)	WEB "WEV" MK.	WEB "WEV" TYPE STEEL	WEB "WEV" PCS	WEB "WEV" DIA	WEB "WEV" LENGTH	WEB "WTU" ▲ MK.	WEB "WTU" ▲ TYPE STEEL	WEB "WTU" ▲ P-S	WEB "WTU" ▲ DIA	WEB "WTU" ▲ LENGTH
C32T33-59075	9V	A242	2"x1½"x.37"	0'-10"		—	—	—	—	—	—	—	—	A36	1.09	4⅜"	—	—	—	—	—	8	A36	1	1.09	2'-6¼"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS	CL-1	CL-2	CL-3	CL-4	FS
	8'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 59'-0 3/4" OVERALL

WORLD TRADE CENTER TOWERS A-8

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A. DATE 4/24/69

APPROVED FOR FABRICATION BY _____ FOR FABRICATOR DATE

DETAILED BY A. CARL WEBER

DESIGN DRAWING NO. 7-ABF-30

DRAWN BY: [illegible] DATE JAN. 23, 1969

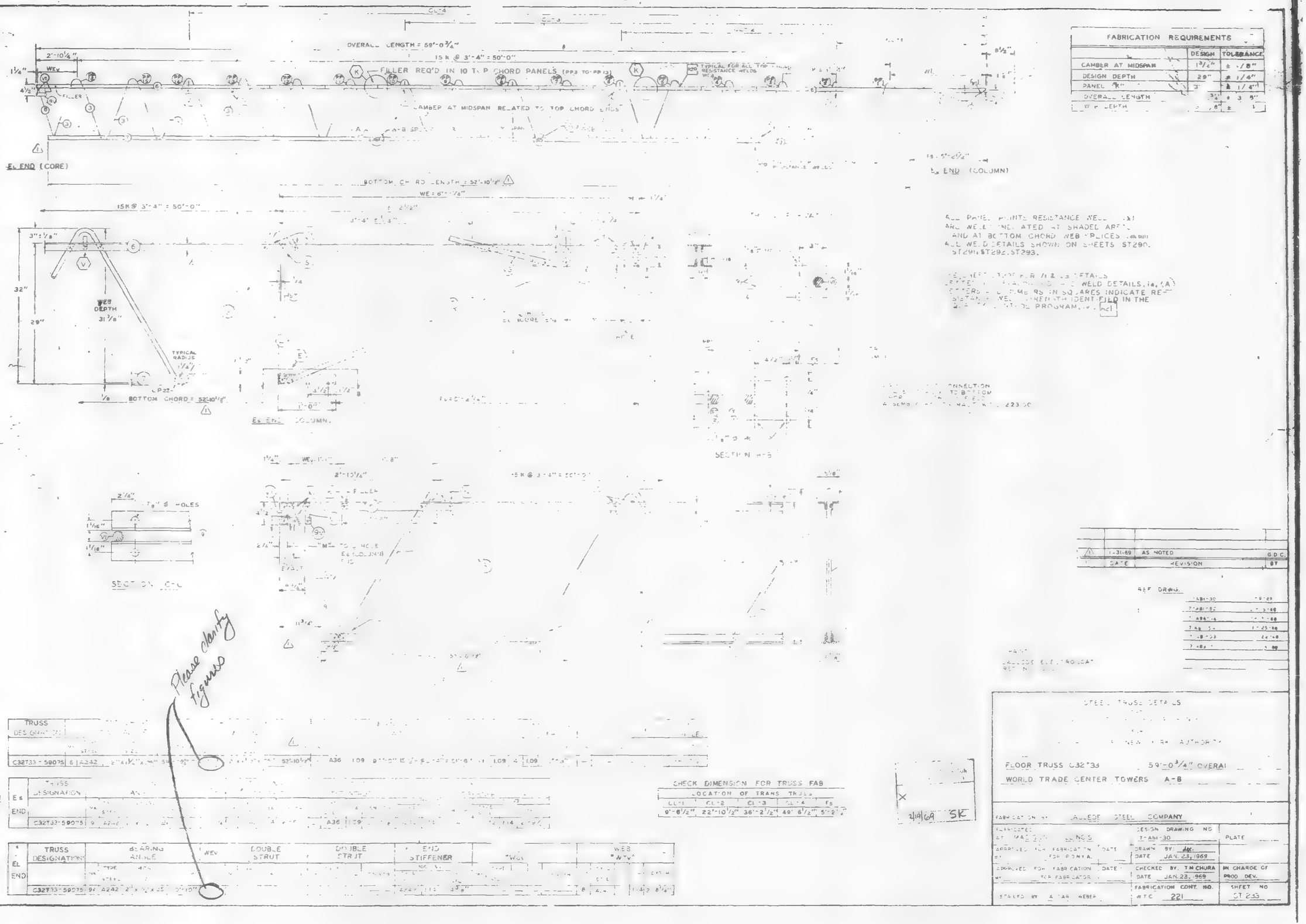
CHECKED BY: [illegible] DATE JAN. 23, 1969

FABRICATION CODE NO. W.T.C. - 223

PLATE

IN CHARGE OF DESIGN [illegible]

SHEET NO. ST 233



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/4"	± 1/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3"	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3"
WEB DEPTH	31⅞"	± 1"

TRUSS DESIGNATION		BEARING ANGLE	WEv	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEh	WEB "WTV"
		TYPE						
		MK						
		STEEL						
C32733-59075	9	A242	2" x ½" x 25"	0'-10"				

TRUSS DESIGNATION								
C32733-59075	9	A242			A36	109		

TRUSS DESIGNATION										
C32733-59075	6	A242				52'-10⅛"	A36	109		109

CHECK DIMENSION FOR TRUSS FAB				
LOCATION OF TRANS TRUSS				
LL-1	CL-2	CL-3	CL-4	FS
0'-8½",	22'-10½"	36'-2½"	49'-6½"	57'-2"

1	1-31-69	AS NOTED
	DATE	REVISION

GDC
BY

REF DRWG.

7-AB1-30	9-69
7-AB1-52	3-69
7-A96-16	3-69
7-AB [illegible]	1-25-69
7-AB-53	4-69
7-AB3	1-69

Please clarify figures

2/19/69 SK

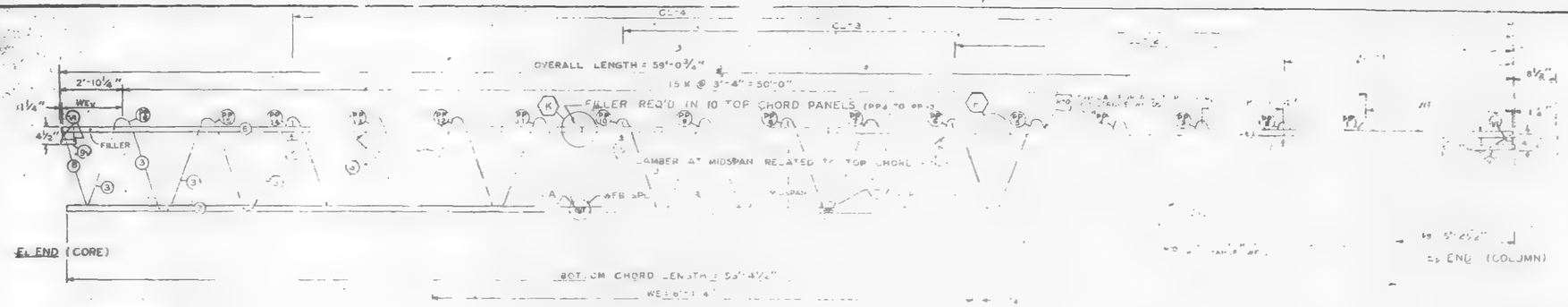
STEEL TRUSS DETAILS

FLOOR TRUSS C32733 59'-0¾" OVERALL

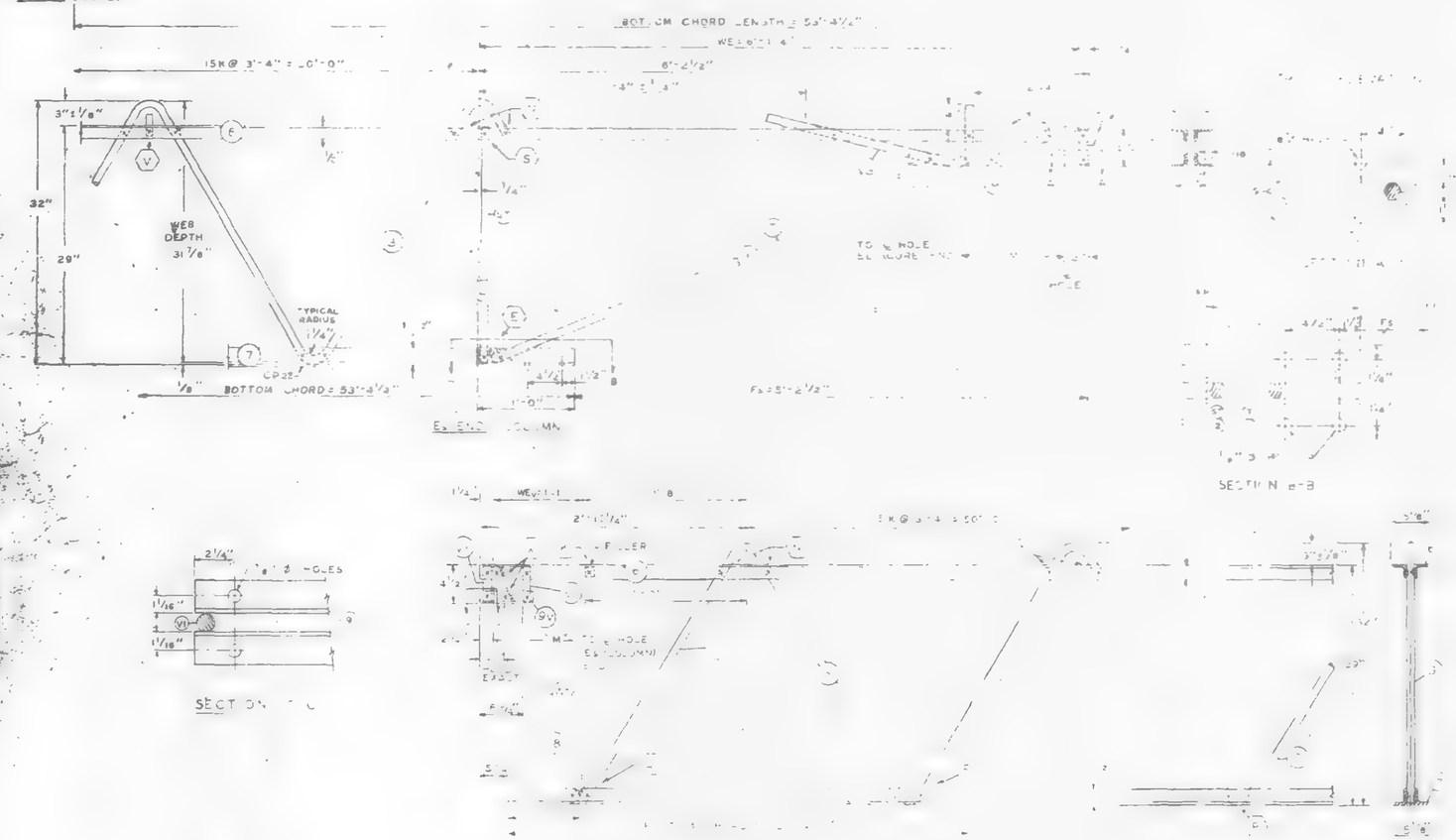
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: JALLEDE STEEL COMPANY

FABRICATED AT: MAC [illegible] N.C.S.	DESIGN DRAWING NO. 7-AB1-30	PLATE
APPROVED FOR FABRICATION BY: FOR PONTA	DATE	DRAWN BY: JDC DATE JAN. 23, 1969
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.N.CHURA DATE JAN. 23, 969
DETAILED BY: A. VAN WEBER	FABRICATION CONT. NO. WTC 221	IN CHARGE OF PROD. DEV. SHEET NO. ST 255



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/4"	± 1/8"
DESIGN DEPTH	2'	± 1/4"
PANEL 4"	4"	± 1/4"
OVERALL LENGTH	0'-0 3/4"	± 3"
WEB DEPTH	31 7/8"	± 1/4



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (typ).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

WELD SYMBOLS FOR W & V DETAILS
SYMBOL IN REGION INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [N2]

ANGLE "N" CONNECTION ARE ATTACHED TO BOTTOM CHORD SPLICE IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO	DATE	REVISION	BY

REF DRWG.

7-ABI-30	0
7-ABI-52	
7-AB4-14	
7-AB 34	
7-ABI-53	
7-AB2 70	

VOID

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	MK	STEEL									
C32T33-59075	8	A242					53	A36	09		

COLUMN END	E5 END	TRUSS DESIGNATION	MK	STEEL									
		C32T33-59075	9	A242					A36	09			

CORE END	EL END	TRUSS DESIGNATION	MK	STEEL	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEB "W"	ANGLE "N"
		C32T33-59075	9V	A242			A242		

FIELD DIMENSIONS FOR TRUSS FAB
LOCATION OF TRANS TRUSS

C	L	FS
21'-8 1/2"	22'-10 1/2"	30'-4"
43'-8 1/2"	51'-2"	

STEEL TRUSS DETAILS

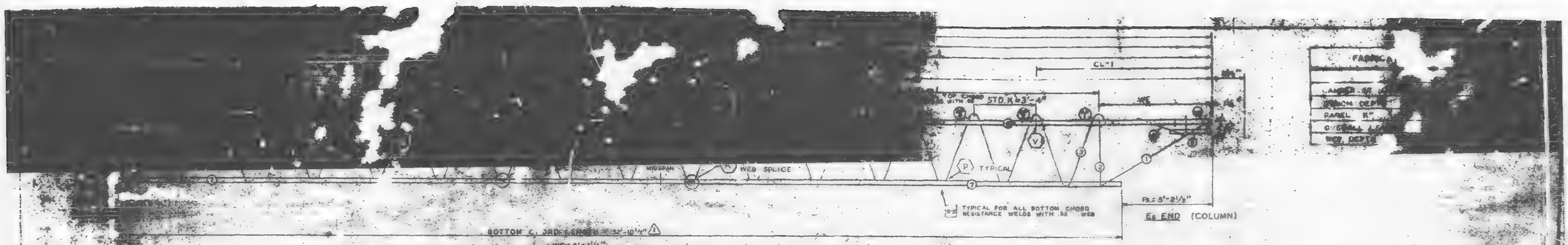
A - [illegible] CENTER - N.Y.C.

THE PORT OF NEW YORK AUTHORITY

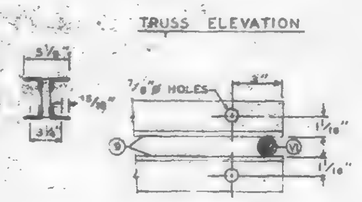
FLOOR TRUSS C32T33 — 59'-0 3/4" OVERALL

WORLD TRADE CENTER TOWERS A-B

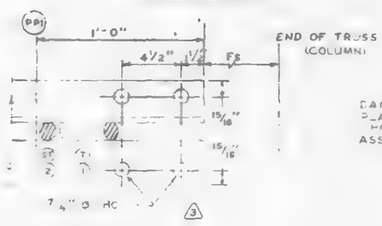
FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-ABI-30	PLATE
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A. DATE	DRAWN BY: dec DATE JAN. 23, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE	CHECKED BY. T.M.CHUPA DATE JAN. 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO ST 233



TRUSS ELEVATION



SECTION A-A

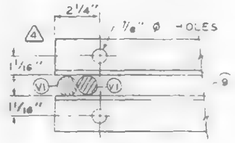


SECTION B-B

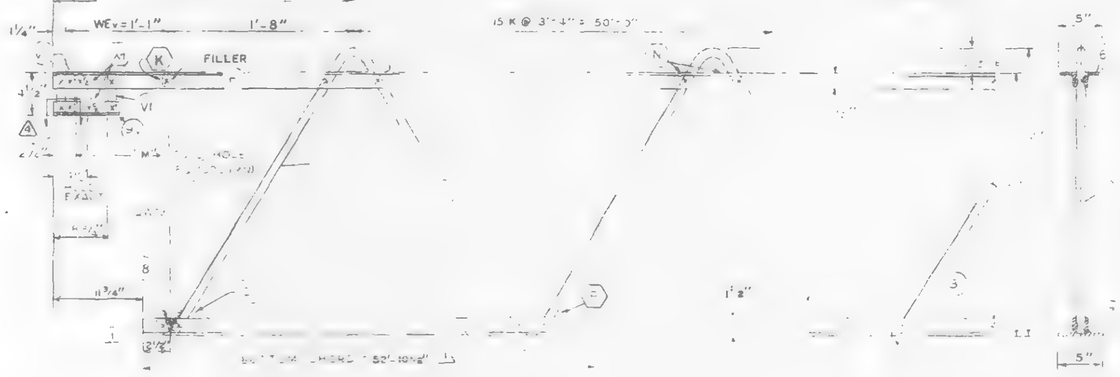
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED BY SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▭▭)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 & ST294. (A)

SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



SECTION C-C



NO.	DATE	REVISION	BY
4	3-31-69	END STIFFENER	D.C.C.
3	2-28-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-31	1-6-69
7-AB1-52	2-15-68
7-AB4-14	10-5-68
7-AB1-54	1-6-69
7-AB1-53	1-22-68
7-AB3-70	11-25-68

PAINT
ALLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	MK	TOP CHORD TYPE STEEL	TOP CHORD SIZE	WEV	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER (4) MK VI	WEB "W"	WEB "W"
C32T34-59075	6	A. 4.	2 x 1 1/2" x .25	A242	2" x 1 1/2" x .25	52'-10 1/2" 3	A242 98	91'-0" 15 2" K @ 3'-4" = 51'-8" 11	98 4 98 3"

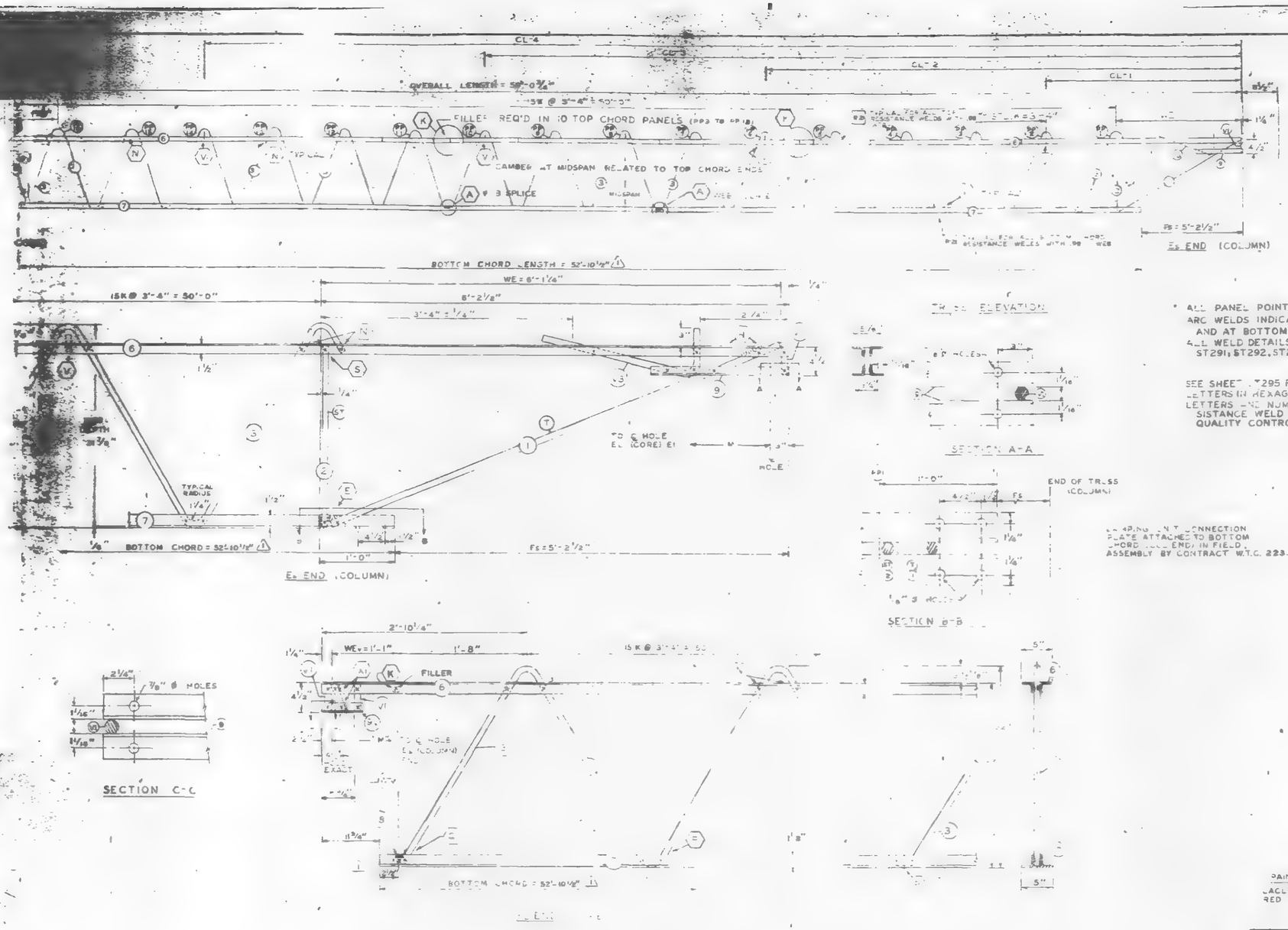
COLUMN END	Es END	TRUSS DESIGNATION	MK	TOP CHORD TYPE STEEL	TOP CHORD SIZE	WEV	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER (4) MK VI	WEB "W"	WEB "W"
		C32T34-59075	9	A242	2" x 1 1/2" x .37" (2)				A242 98		

CORE END	EL END	TRUSS DESIGNATION	MK	BEARING ANGLE TYPE STEEL	BEARING ANGLE SIZE	WEV	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER (4) MK VI	WEB "W"	WEB "W"
		C32T34-59075	9V	A242	2" x 1 1/2" x .37" (2)	10"			A242 98 (2)	8 A242 1 98	2'-1 1/2" (2)

STEEL TRUSS DETAILS
[illegible] CENTER — W.T.C.
[illegible] OF NEW YORK AUTHORITY
FLOOR TRUSS C32T34 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

[illegible] STEEL COMPANY

DESIGN DRAWING NO.	7-AB1-45
DRAWN BY	[illegible] 3/10/69
DATE	JAN 23, 1969
CHECKED BY	T.M. CHURA
DATE	JAN 23, 1969
FABRICATION CONT. NO.	221
PLATE	
IN CHARGE OF PROD. DEV.	
SHEET NO.	ST 234



FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	± 1/16"
PANEL "K"	3'-4"	± 1/8"
OVERALL LENGTH	59'-0¾"	± 3/8"
WEB DEPTH	3. 7/8"	± 1/16

* ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (■■■■)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

SPLICING JOINT CONNECTION PLATE ATTACHED TO BOTTOM CHORD AT END, IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.N.C.
1	1-31-69	AS NOTED	G.B.C.

REF. DRWG.

7-ABI-31	1-6-69
7-ABI-52	2-18-69
7-ABM-14	10-15-68
7-ABI-54	1-6-69
7-ABI-53	7-22-68
7-ABI-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED MO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES																							
	MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	WEB "WEV"	1	WEB "WEV"	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE
C32T34-59075	6	A242	2"x1½"x.25	52'-10½"	A242	2"x1½"x.25	52'-10½"	3	A242	98	97'-0"	15 2"K @ 3'-4" = 51'-8"	1	98	4	98	3"							

TRUSS DESIGNATION	BEARING ANGLES																							
	MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DOUBLE STRUT	1	DOUBLE STRUT	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE
C32T34-59075	9	A242	2"x1½"x.37	10"	1'-1"																			

TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT		TRIPLE STRUT		END STIFFENER		WEB "WCV"		WEB "WCV"	
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	LENGTH	MK	LENGTH	MK V	LENGTH	MK	LENGTH	MK	LENGTH
C32T34-59075	8V	A242	2"x1½"x.37	10"	1'-1"					A242	58 4⅜"	6	A242	1	58 2'-6½"

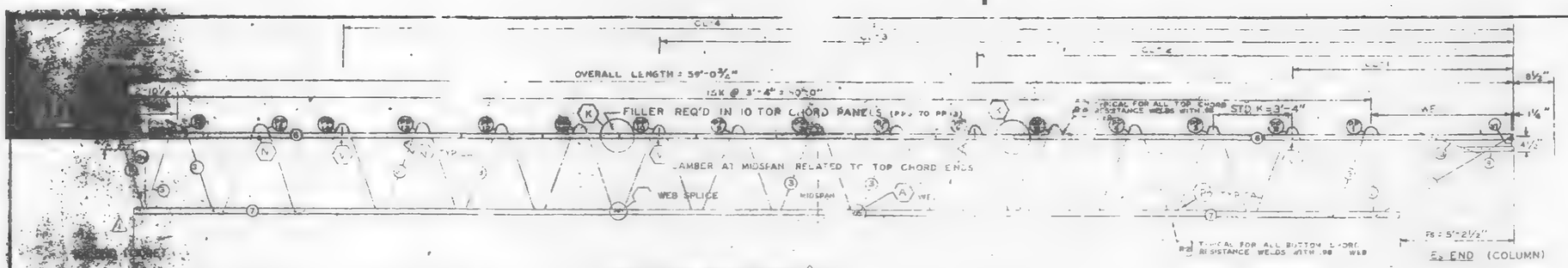
9'-6½"	22'-0 2"	36'-4½"	49'-6.2"	5'-2½"	

STEEL TRUSS DETAILS
FOR
LACLEDE TRADE CENTER, - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

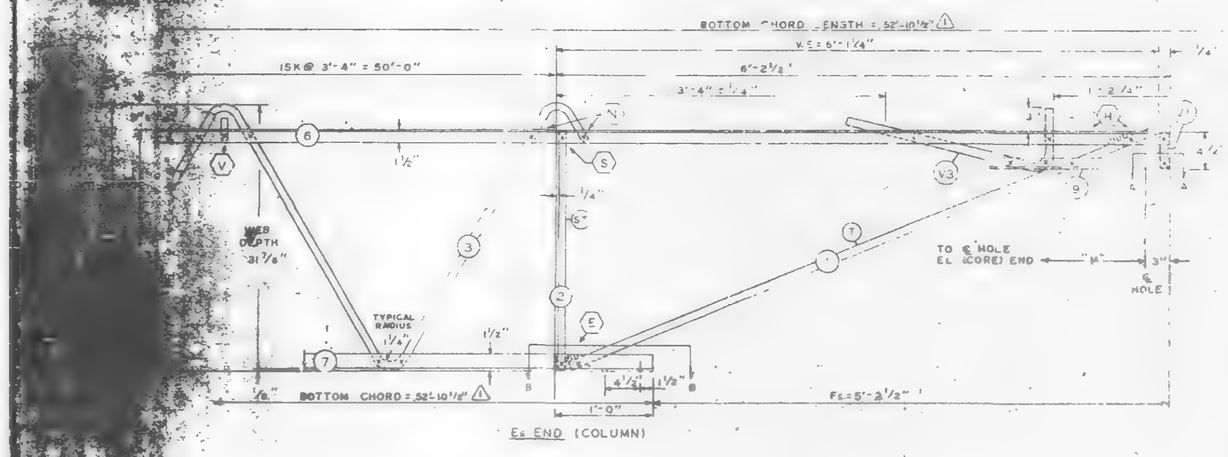
FLOOR TRUSS C32T34 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

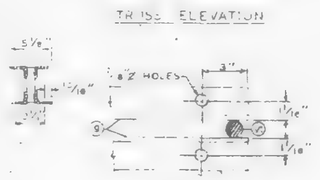
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-48	PLATE
APPROVED FOR FABRICATION FOR FONYA BY [illegible] DATE 2/24/69	DRAWN BY: dc DATE JAN. 23, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY: T.M.CHUNG DATE JAN. 23, 1969	IN CHARGE OF PROD. DEPT.
DETAILED BY A. CARL WEBER	FABRICATION CONTR. NO. W.T.C. 221	SHEET NO. ST 234



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/16"	± 3/8
DESIGN DEPTH	29"	± 1/4"
PANEL K"	3'-4"	- 1/8"
OVERALL LENGTH	59'-	± 3/8"
WEB DEPTH	31 7/8"	± 1/4

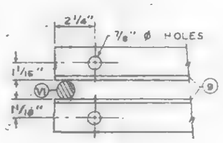


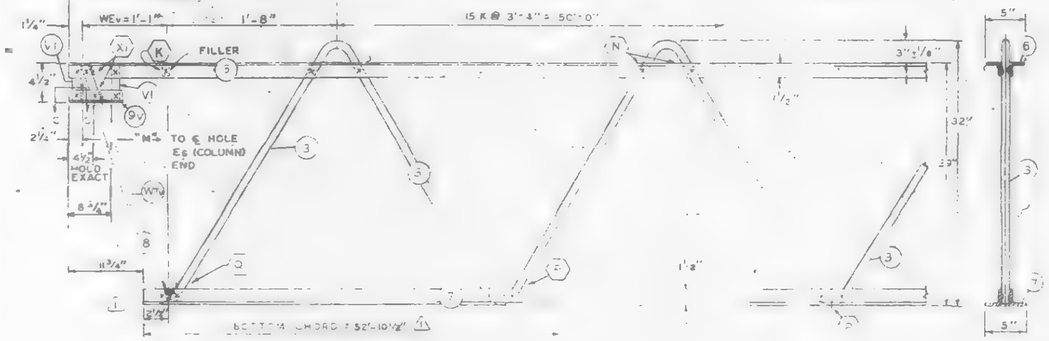


ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (####)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie, R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.





Parts of sheet ab not print Please clarify

NO	DATE	REVISION	BY
1	11-31-68	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-31	1-6-69
7-AB-52	2-15-68
7-AB4-4	11-5-68
7-AB1-54	1-6-69
7-AB1-53	7-24-68
7-AB2-70	11-25-68

PAINT
LAGLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD END ANGLES																							
	MK	TYPE STEEL	CHORD SIZE	LENGTH																				
C32T34-59075	6	A242	2"x1½"x.25	1'-0"	½"	A242	2"x1½"x.25	52'-10 1/2"	3	A242	98	97'-0"	15½"K@3'-4"=51'-8"	10	98	4	98	3"						

COLUMN END	E2 END	TRUSS DESIGNATION	BOTTOM ANGLE																					
			MK	TYPE STEEL	CHORD SIZE																			
		C32T34-59075	9	A242	2"x1½"x.25																			

TRUSS DESIGNATION	BEARING ANGLE			WEv	DOUBLE STRUT			DOUBLE STRUT			END STIFFENER MK.VI			WEB "WLV"				WEB "WTV"			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	LENGTH REQ'D	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	LIN	LENGTH REQ'D	MK	TYPE STEEL			MK	TYPE STEEL	LENGTH
C32T34-59075	9V	A242	2"x1½"x.31	10"	1'-1"								A242	1.14	4 3/8"					8	A242	1.14	2'-0 1/4"

1	11-31-68	AS NOTED	G.D.C.
NO	DATE	REVISION	BY

REF. DRWG.

7-AB1-31	1-6-69
7-AB-52	2-15-68
7-AB4-4	11-5-68
7-AB1-54	1-6-69
7-AB1-53	7-24-68
7-AB2-70	11-25-68

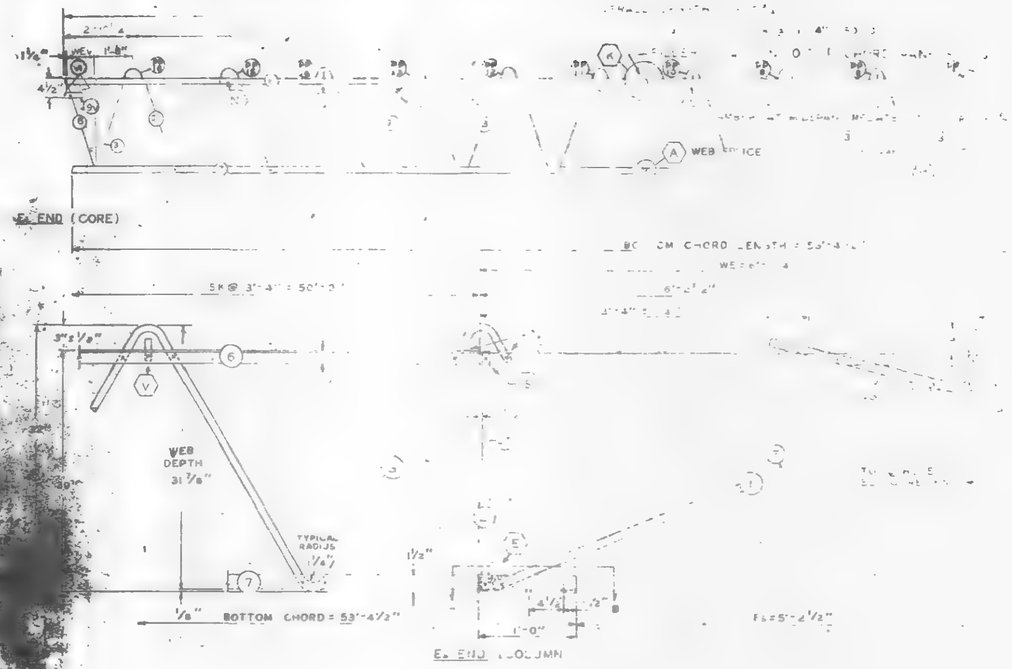
PAINT
LAGLEDE ELECTROCOAT
RED NO 10001

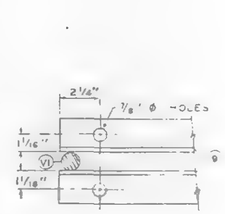
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY [illegible] STEEL COMPANY

USER DATE		DESIGN DRAWING NO. 7-AB1-45	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR PONYA	DATE	DRAWN BY: dec DATE JAN.23.1969	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR	DATE	CHECKED BY. T.NUMURA DATE JAN.23.1969	IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. ST 234





FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	15/16"	- 3/8"
SECTION DEPTH		± 1/4"
PANEL "K"	4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 8"
"L" DEPTH	31 7/8"	± .4

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (BWMI)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

REF. SHEET ST295 FOR V1 & V3 DETAILS
EXPLANATION: HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE REQUIRED WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie, R-6

CAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY

REF. DRWG.

7-ABI-31	11-6-59
7-AB-52	12-5-60
7-AB4-14	10-15-60
7-AB-54	11-6-59
7-AB-53	12-7-60
7-AB3-70	11-25-60

VOID

PAINT
DULUX ELECTRODEPOSIT
RED NO 10001

TRUSS DESIGNATION																			
C32T34-59075	6	3"x1/2"	2"x1/2"x25	A242	2"x1"x1/2"x25	53'-4 1/2"	3	A242	98	97'-0"	15 1/2" K @ 3'-4" = 51'-8"	5	98	4	98	3"			

COLUMN END	E.S END	TRUSS DESIGNATION	MK	TYPE STEEL	CHORD SIZE													
		C32T34-59075	9	A242	2"x1 1/2"													

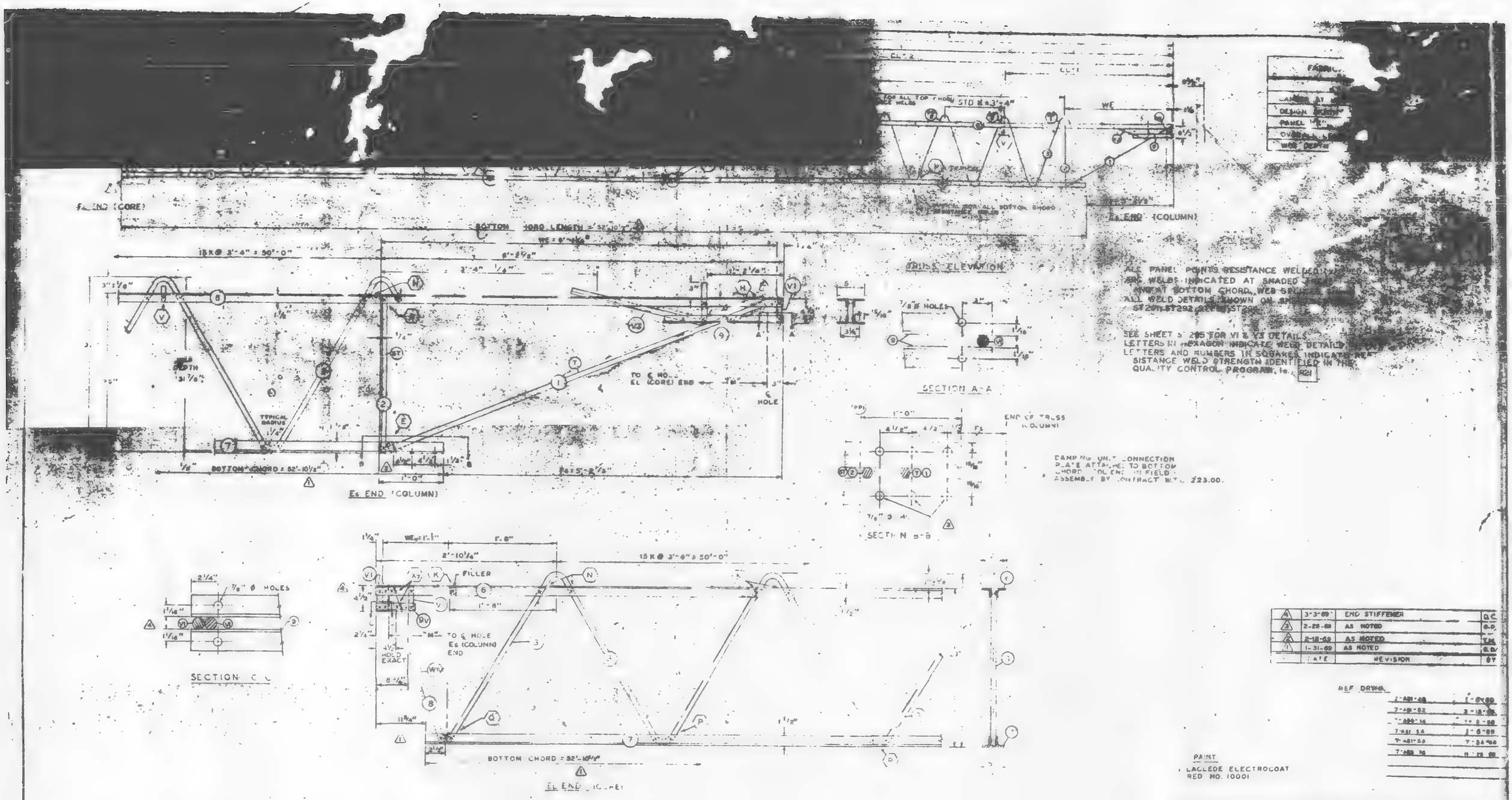
CORE END	EL END	TRUSS DESIGNATION	MK	TYPE STEEL	BEARING ANGLE		B.E. STRUT		B.E. STRUT		STIFFENER							
		C32T34-59075	9	A242	2"x1 1/2"x.31	10"	1'-1"		A242	14	3/8		A242	14	2'-0 1/4"			

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATED BY MAGEE STEEL COMPANY

DESIGN DRAWING NO	7-ABI-45	PLATE
DRAWN BY	JDC	
DATE	JAN 23, 1969	
CHECKED BY	T NAKURA	In CHARGE OF PROD DEPT
DATE	JAN 23, 1969	
FABRICATION CONT NO	W.T.C. 221	SHEET NO ST 234



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED
AND AT BOTTOM CHORD, WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS
ST 291, ST 292 AND ST 293.

SEE SHEET ST 295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. Ref. 621

CAMBER AT CONNECTION PLATE ATTACHED TO BOTTOM CHORD TO BE FIELD ASSEMBLY BY CONTRACT WELD 223.00.

A	3-3-69	END STIFFENER	QC
3	2-28-69	AS NOTED	G.D.
2	2-18-69	AS NOTED	TAS
1	1-31-69	AS NOTED	G.D.
	DATE	REVISION	BY

REF DRWG.

1-AB1-48	1-0-69
7-AB1-52	2-18-69
7-AB1-54	1-6-69
7-AB1-55	7-24-68
7-AB1-56	11-19-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "WA"								WEB "WB"				WEB "WC"				½" HOLES
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	
C32T35 - 59075	6	A242	2"x1½"x.25"	59'-0¾"	7	A242	2"x1½"x.25"	52'-10½"	3	A242	.98	97'-0"	15½ K @ 3'-4" = 51'-8"	11	.98	4	.98	3'-3"	—	—	—	—	—	—	58'-7½"

	TRUSS DESIGNATION	BEARING ANGLES				WEV	"S" STRUT				"S" STRUT				END STIFFENER							
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T35 - 59075	9	A242	2"x1½"x.37"	1'-10"	1'-1¼"	10	A242	.98	8'-6"	2	A242	.98	2'-4⅞"	A242	.98	3'-7⅛"	A242	8	A242	.98	2'-9¼"

	TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER				WEB "WCV"				WEB "WTV"			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END	C32T35 - 59075	W	A242	2"x1½"x.37"	0'-10"	1'-1"	—	—	—	—	—	—	—	—	A242	.98	4⅜"	—	—	—	—	—	8	A242	.98	2'-8¼"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS				
CL-1	CL-2	CL-3	CL-4	Es ℄
9'-6½"	22'-10½"	36'-2¾"	49'-6"	52'-2½"

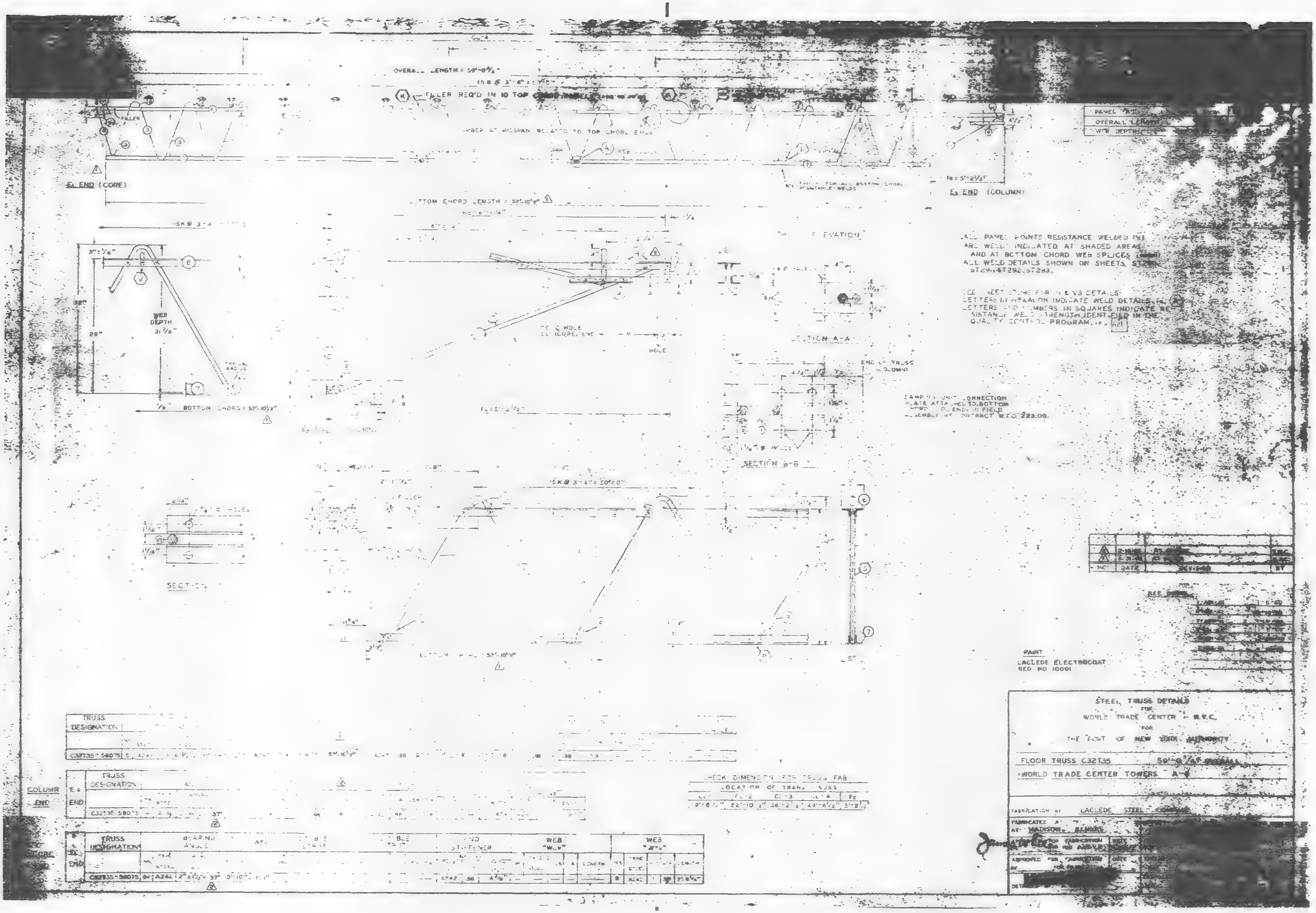
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

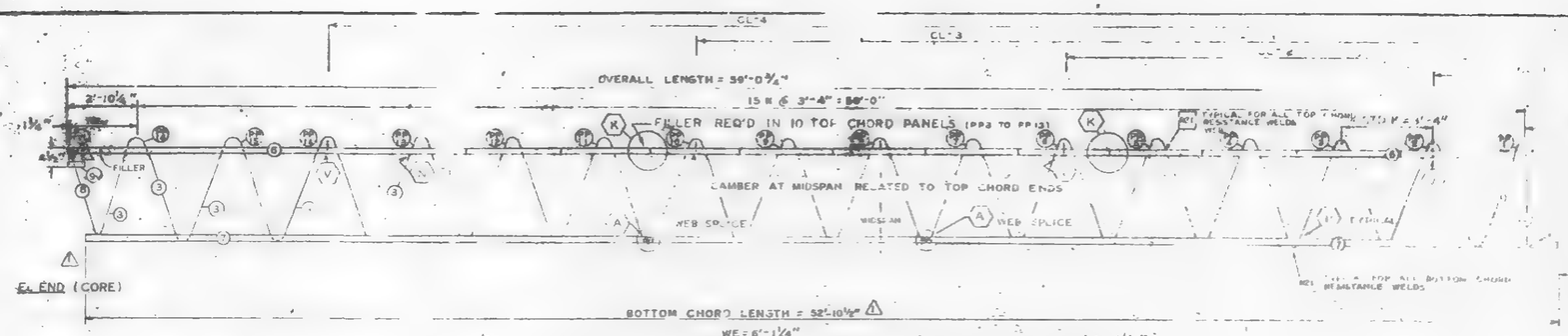
FLOOR TRUSS C32T35 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

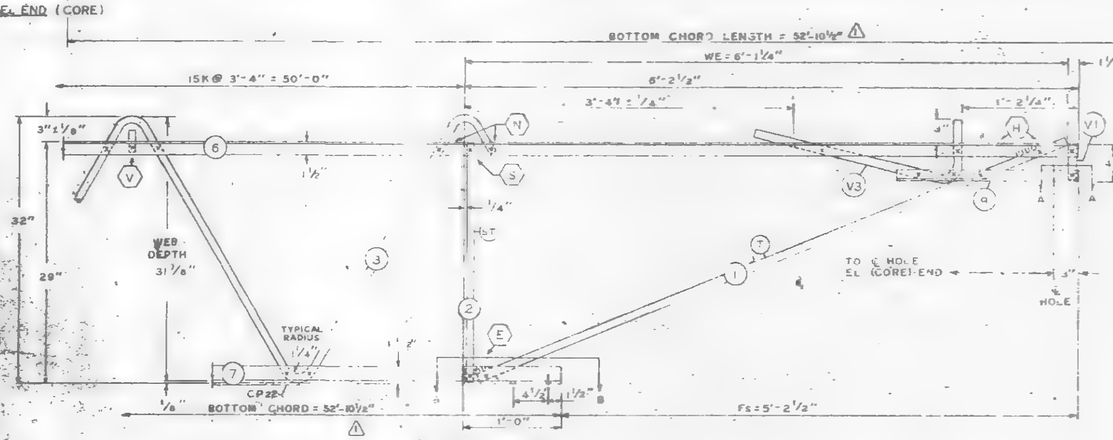
FABRICATED BY AMERICAN BRIDGE DIVISION OF U.S. STEEL CORPORATION
FABRICATED AT MADISON, ILLINOIS

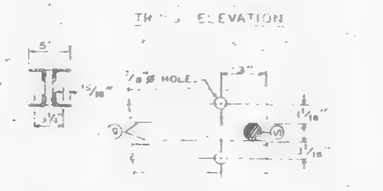
DESIGN DRAWING NO	7-AB1-46
DRAWN BY	MK
DATE	JAN. 22, 1969
CHECKED BY	T.M. CHURA
DATE	JAN. 22, 1969
FABRICATION CONT. NO	221
PLATE	
SHEET NO	ST 285

James White 1/31/69


OVERALL LENGTH = 59'-0 3/4"
15 K @ 3'-4" = 50'-0"
FILLER REQ'D IN 10 TOP CHORD PANELS
NUMBER AT MIDSPAN RELATED TO TOP CHORD END
WEB DEPTH
PANEL
OVERALL LENGTH
WEB DEPTH
E1 END (CORE)
E2 END (COLUMN)
BOTTOM CHORD LENGTH = 52'-10 1/2"
WEB DEPTH 31 7/8"
29"
BOTTOM CHORD = 52'-10 1/2"
TOP CHORD
EL (CORE) END
HOLE
ELEVATION
SECTION A-A
SECTION B-B
END OF TRUSS
SECTION
ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELD INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS
SEE SHEET FOR R & V3 DETAILS
LETTERS IN OVAL ON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM.
SAMPLE JOINT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD END IN FIELD
ASSEMBLY BY CONTRACT W.T.C. 223.00
PAINT
LACLEDE ELECTROCOAT
RED NO 10001
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T35
WORLD TRADE CENTER TOWERS
FABRICATED BY LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
BY
DATE
TRUSS DESIGNATION
C32T35 - 58075
COLUMN END
CORE END
BEARING ANGLE
END STIFFENER
WEB "W1"
WEB "W2"
LENGTH
CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS
9'-8 1/2"
22'-10 1/2"
36'-2 1/2"
49'-6 1/2"
51'-2 1/2"





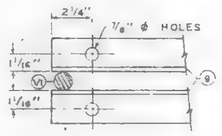


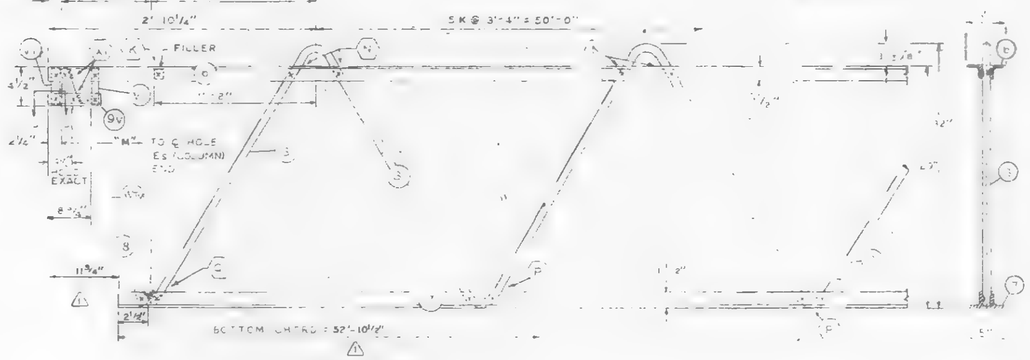
ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (typ.)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET STATE FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie, R<1

LAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD AT END IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3/4"	± 1/2"
DESIGN DEPTH	29"	± 1/4"
PANEL	3'	± 1/16"
OVERALL LENGTH	±	± 3/8
W-B DEPTH	31 1/8"	± 1/8"





Parts of sheet do not print - Please clarify

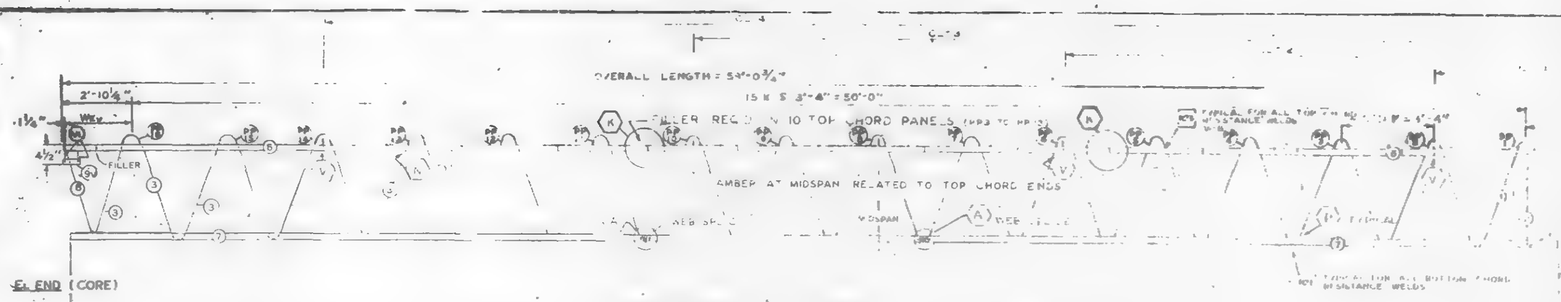
1	1-31-69	AS NOTED	G.D.C.
NO.	DATE	REVISION	BY

REF DRWG.

7-481-48	1-6-69
7-481-52	2-15-68
7-486-14	1-3-68
7-481-54	1-6-69
7-481-53	7-22-68
7-483-70	11-26-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

| TRUSS DESIGNATION | TOP CHORD ANGLES | | | | BOTTOM CHORD "A" | | | | | | | | | | | | WEB "A" | | | | | | | | | | | |



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3¼"	± 3/8"
DESIGN DEPTH	29	± 1/16"
PANEL "A"		± 1/32"
OVERALL LENGTH	59'-0¾"	± 3/4
WEB DEPTH	31 7/8"	± 1/8

ALL PANEL POINTS RESISTANCE WELDED WI ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (TYPICAL) ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST296 FOR W1 & W3 DETAILS LETTERS IN DIAMOND INDICATE WELD DETAILS. i.e. (A) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. i.e. [4C1]

CAMBERING CONNECTION PLATE ATTACHED TO BOTTOM CHORD E₂ END IN FIELD ASSEMBLY BY CONTRACT WT. C. 223.00.

NO.	DATE	REVISION	BY

REF DRWG.

1-ABI-48	1-6-69
7-ABI-52	2-15-68
7-ABI-14	1-3-68
7-ABI-34	1-6-69
7-ABI-53	7-24-68
7-ABI-70	11-20-68

VOID

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES						BOTTOM CHORD TWO ANGLES						WEB MEMBERS												CONNECTION PLATE				% HOLES
	MK.	TYPE STEEL	CHORD SIZE	LENGTH MK.	TYPE STEEL	CHORD SIZE	LENGTH MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF P.	DIA.	NO.	DIA.	LENGTH	MK.	TYPE STEEL	LENGTH	MK.	TYPE STEEL	LENGTH	
C32T35-59075	6	A242	2"x1½"x.25"	59'-0¾"	A242	2"x1½"x.25"	53'-4½"	3	A242	.98	87'-0"	15½ R @ 3'-4" = 51'-8"	11	.98	4	.98	0'-3"	—	—	—	—	—	—	—	—	58'-7½"

TRUSS DESIGNATION	BEARING ANGLES																								
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
C32T35-59075	9	A242	2"x1½"x.25"	1'-10"	6	A242	.98	6'-11¼"	1	A242	.98	6'-2⅞"	2	A242	.98	0'-4⅜"	5	—	.98	2'-8½"				

TRUSS DESIGNATION	BEARING ANGLES						DOUBLE STRUT				DOUBLE STRUT				END STIFFENER				WEB "WCV"				WEB "WTV"			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PLS.	DIA.	MK.	TYPE STEEL	DIA.	LENGTH
C32T35-59075	9V	A242	2"x1½"x.25"	0'-10"	V												A242	.98	4'-3⅞"	—	—	—	—	—	8	A242	.98	2'-8⅞"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
0'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

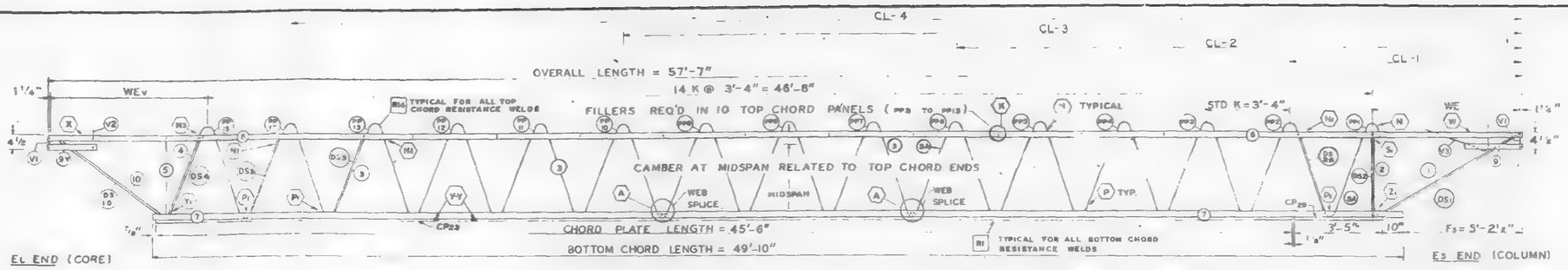
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T35 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

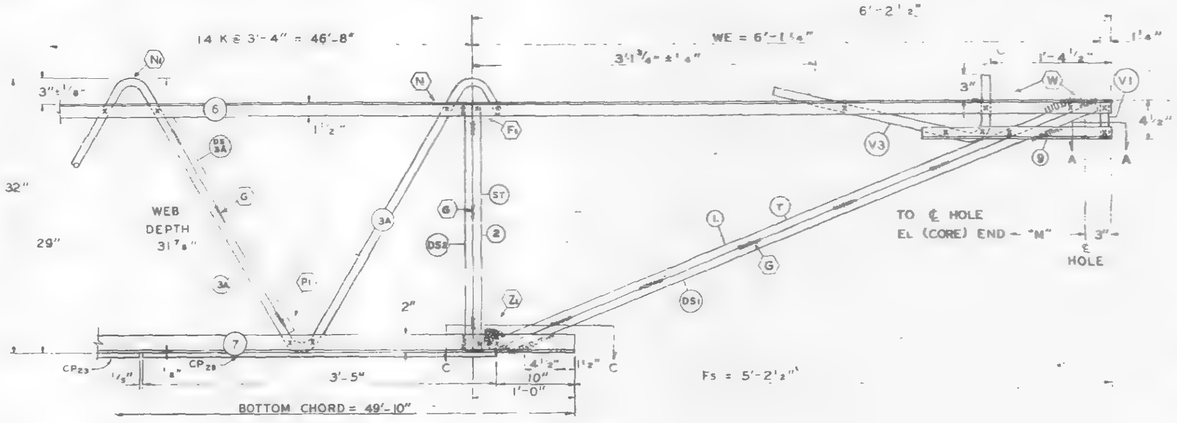
FABRICATION BY: LACLEDE STEEL COMPANY

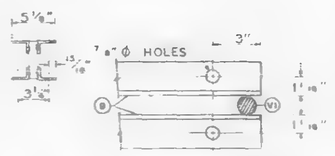
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 1-ABI-48	PLATE
APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE JAN. 22, 1969	
APPROVED FOR FABRICATION BY _____ FOR FABRICATOR	DATE	CHECKED BY: T.M.CHUNG DATE JAN. 22, 1969	IN CHARGE OF PROD. DEPT.
DETAILED BY A. CARL WERNER		FABRICATORS CONT. NO. W.T.C. 221	SHEET NO. ST 235

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4",

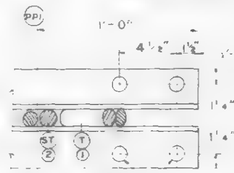


TRUSS ELEVATION



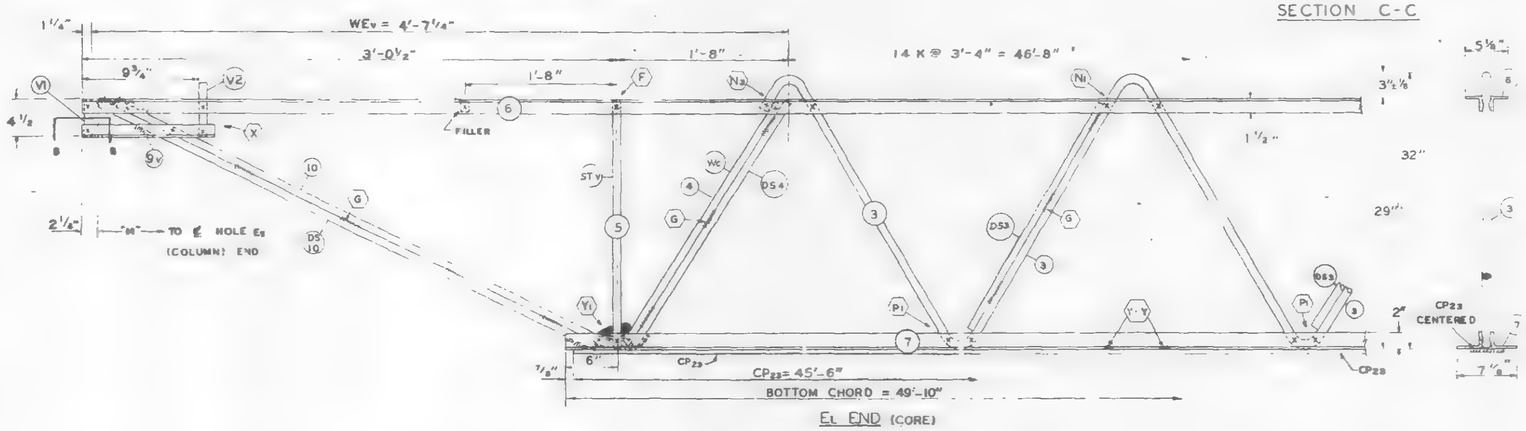


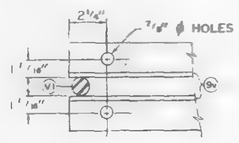
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD, WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST280 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie. RI



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.





SECTION B-B

VOID

SKILLING · HELLE CHRISTIANSEN ROBERTSON
Structural & Civil Engineers
APPROVED
APPROVED
DATE 4/4/69 BY SK

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-32	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

Truss length not right

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		℄ "M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T36P 577	6	A242	2"x1 1/2"x 31"	57'-7"	7	A36	3"x 2"x 37	49'-10"	3 3A	A242 A242	1.14 1.14	53'-4 3/4" 84'-8 1/2"	8 1/2 x 8'-3'-4" = 28'-4" 5 1/2 x 8'-3'-4" = 18'-4"	11	1.14	5 7'-13/4"	-	—	—	CP 23	A36	4 1/2"x .39	45'-6"	DS2	A242	.75	2'-4 7/8"	CP 29	A36	4 1/2"x .39"	3'-5"

Es END	TRUSS DESIGNAT.	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA.	MK. V3 LENGTH	MK.	TYPE STEEL	DIA	LGTH.
	C32T36P-577	9	A242	2"x1 1/2"x .37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"-	22'-10 1/2"-	36'-2 1/2"-	49'-6 1/2"-	5'-2 1/2"-

DOUBLE STRUT			
MK.	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

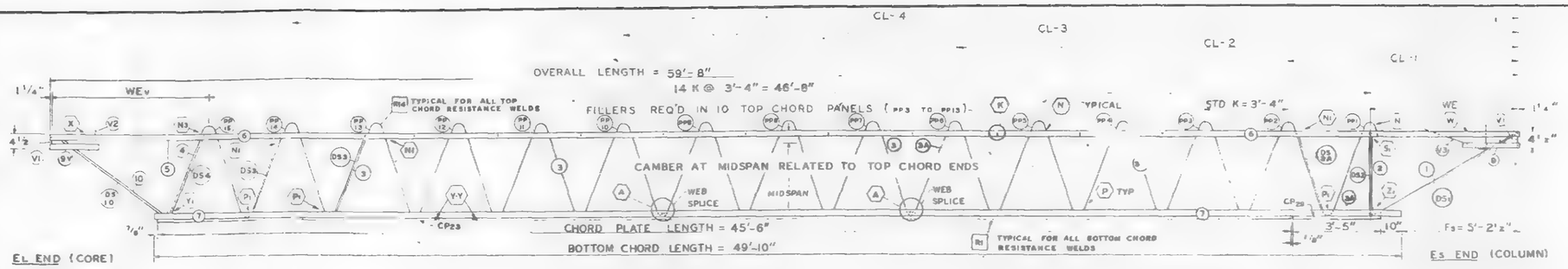
CORE EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER						WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (PEDD)			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T36P-577	9	A242	2"x1 1/2"x .37	11'3 1/4"	6'-7 1/4"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8 -	A242	1.14	7 3/8"				4	A242	1	1.14	2'-	DS 4	A242	92	2'-9 1/2"	DS 10	A242	75	3'-7"	DS 3	A242	92	2'-6 3/4"

FABRICATION BY:	LACLEDE STEEL COMPANY
FABRICATED AT:	MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A.	DATE ____
APPROVED FOR FABRICATION BY: ____ FOR FABRICATOR	DATE ____
DETAILED [redacted]	CHECKED BY: [redacted] CHARGE NO. [redacted] DATE MAY 6, 1969 MOD. DEV.
DESIGN DRAWING NO.	7-AB1-32 PLATE ____
DRAWN BY: [redacted] DATE: MAY 6, 1969	
FABRICATION CONTROL WT. C. 221	SHEET NO. ST 280

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

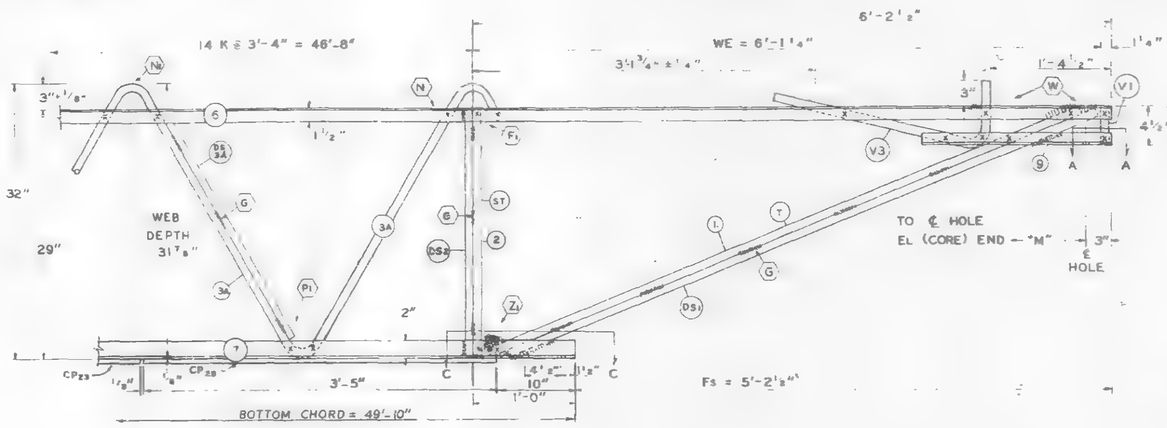
FLOOR TRUSS C32T36P 57'-7" OVERALL

WORLD TRADE CENTER TOWERS A & B

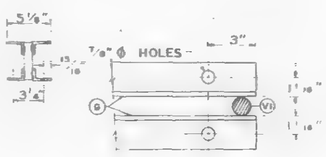


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

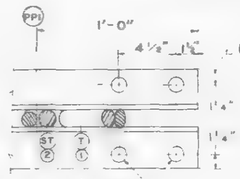


Es END (COLUMN)



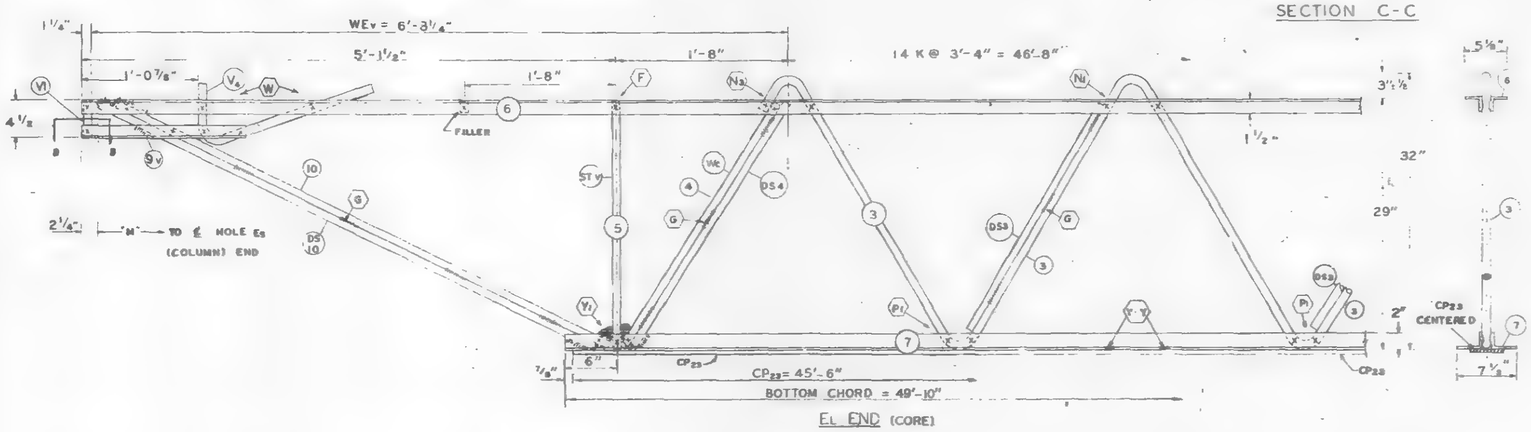
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (TYPICAL)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie (R1)

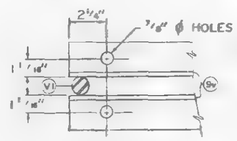


DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS

SECTION C-C



EL END (CORE)



SECTION B-B

VOID

Truss length not rqd

CHRISTIANSEN ROBERTSON Structural & Civil Engineers
APPROVED
APPROVED AS NOTED
6/16/69 BY SK

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-32	1-6-69
7-AB4-30	6-1-68
7-AB3-41	1-6-69
7-AB-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10004

TRUSS DESIGNATION	UP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT				CHORD PLATE		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T36C 598	6	A242	2"x1½"x.31"	59'-8"	7	A36	3"x2"x.37	49'-10"	8 3A	A242 A242	1.14 1.14	83'-6 3/4" 84'-8 1/2"	8 1/2 K @ 3'-4" = 28'-4" 5 1/2 K @ 3'-4" = 18'-4"	11	1.14	59'-2 3/8"	—	—	—	CP 23	A36	4½"x.39"	45'-6"	DS2	A242	.75	2'-4 7/8"	CP 29	A36	4½"x.39"	3'-5"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
Es END		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. VI TYPE STEEL	MK. VI DIA.	MK. VI LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA.	MK. V3 LENGTH	MK	TYPE STEEL	DIA.	LGTH.
	C32T36C 598	9	A242	2"x1½"x.37"	2'-3"	6'-1¼"	1	A242	1.14	6'-3 1/8"	2	A242	1 1/4	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-8 1/2"	DS 3A	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.

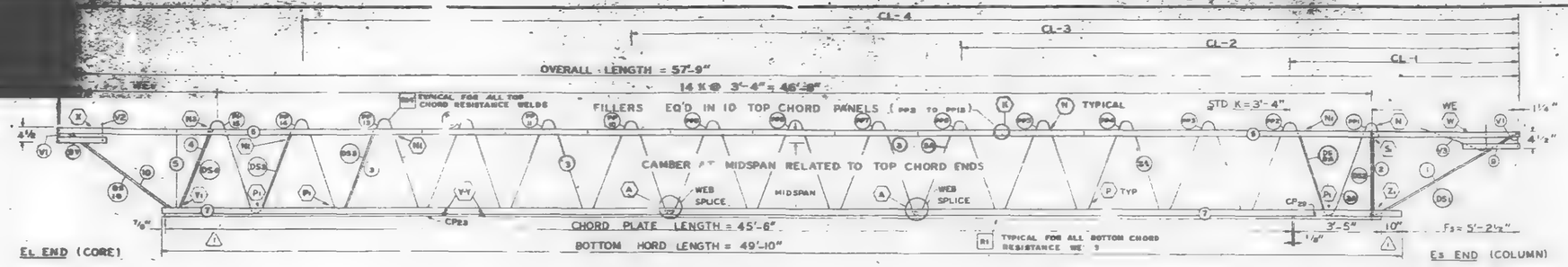
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT			
MK	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "W" STRUT				VERTICAL "ST" STRUT				END STIFFENER										WEB "W"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUB (PROD) S			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK. VI TYPE STEEL	MK. VI DIA.	MK. VI LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DI	LENGTH
		C32T36C 598	9	A242	2"x1½"x.37"	1'-6"	6'-8 1/16"	10	A242	1.14	5'-4½"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	2'-9"	A242	92	2'-9½"	DS 10	A242	75	5'-4½"	DS 3	A242	92	2'-6 3/4"

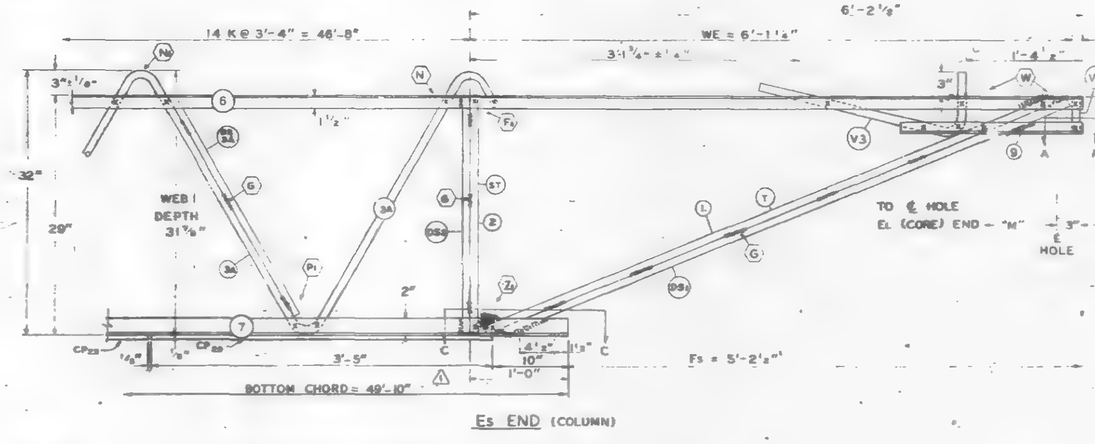
STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T36C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

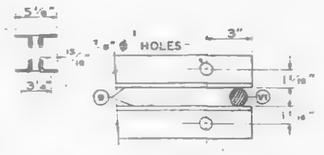
FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO.: 7-AB-32	PLATE
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: MAY 6 1969	
APPROVED FOR FABRICATION BY: [illegible] FOR FABRICATOR	DATE	CHECKED BY: T.B.C. DATE: MAY 6 1969	CHARGE OF MOD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 236C



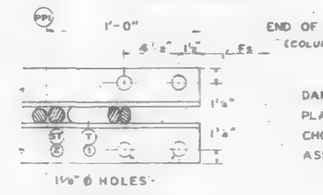
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	CL-4	CL-1
CAMBER AT MIDSPAN	1 1/4"	1/8"
DESIGN DEPTH	29"	1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

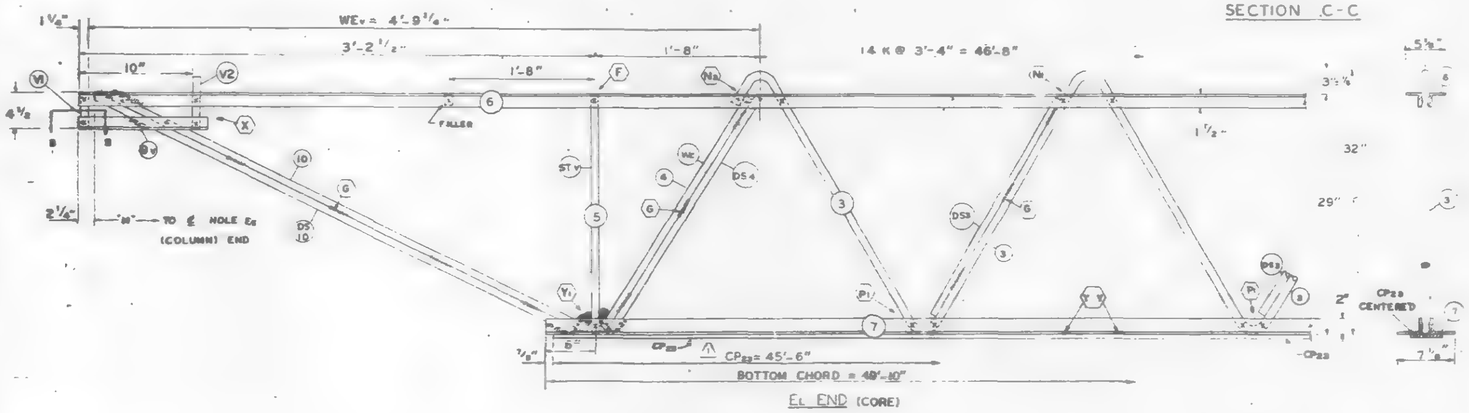


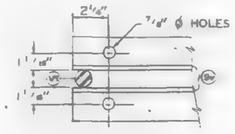


ALL PANEL POINTS RESISTANCE WELDED (K)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (typical)
ALL WELD DETAILS SHOWN ON SHEETS ST280 - ST294 AND ST286. △1
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS





NO.	DATE	REVISION	BY
1	2-18-69	AS NOTED	T.M.C.

REF DRWG.

7-ABI-32	8-6-68
7-AB4-50	8-14-68
7-AB3-41	8-6-68
7-ABI-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT				CHORD PLATE △1			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF R	NO	DIA		NO	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T36N-579	6	A242	2"x1½"x.31"	57'-9"	7	A36	3"x2"x.37	49'-10"	3 3A	A242 A242	1.14 1.14	53'-4 3/4" 54'-8 1/8"	8 1/2 R @ 3'-4" ; 28'-4" 5 1/2 R @ 3'-2" ; 18'-4"	11	1.14	57'-3¾"	—	—	—	CP 23	A36	4½"x.39"	45'-6"	DS2	A242	.75	2'-4 7/8"	CP 29	A36	4½"x.39"	3'-5"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V3	DOUBLE STRUT MK.	TYPE STEEL	DIA	LGTH.
	C32T36N-579	9	A242	2"x1½"x.37 △1	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	1.14	6	DS1	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
DS 8A	A242	.75	2'-6 3/4"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "V" STRUT △1 MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK.	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT △1 MK.	TYPE STEEL	DIA	LENGTH	(2) DOUBLE (REQD) STRUT MK.	TYPE STEEL	DIA	LENGTH
	C32T36N-579	9	A242	2"x1½"x.37 △1	1'-0"	4'-9⅜"	10	A242	1.14	3'-5 1/4"	5	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8" -	A242	1.14	7⅜" -			4	A242	1	1.14	2'-9 1/2"	DS 5	A242	92	2'-9 1/2"	DS 10	A242	75	3'-8 1/4"	DS 8A	A242	92	2'-6 3/4"

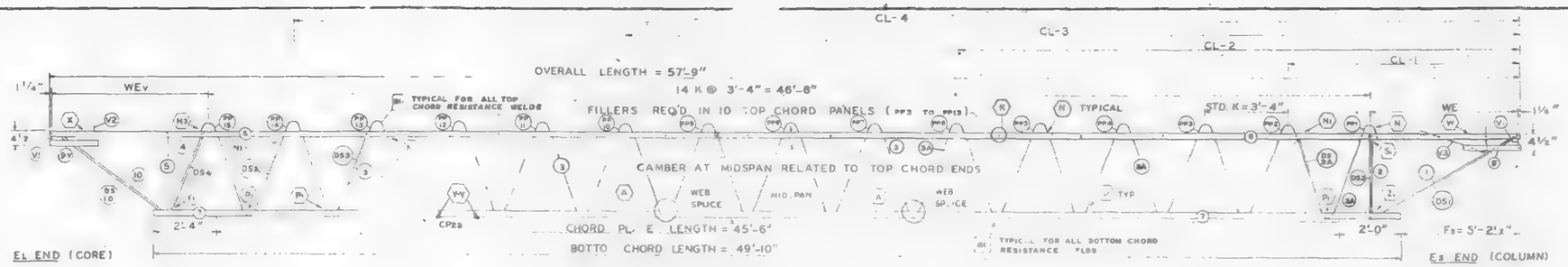
FABRICATION BY:	LACLEDE STEEL COMPANY		
FABRICATED AT:	MADISON, ILLINOIS	DESIGN DRAWING NO.	7-ABI-32
APPROVED FOR FABRICATION BY:	FOR P.O.N.Y.A.	DATE:	4/24/69
APPROVED FOR FABRICATION BY:	FOR FABRICATOR	DATE:	
DETAILED BY	A.C. WEBER	DRAWN BY:	L.A.
		DATE:	JAN 20 1969
		CHECKED BY:	T.R.CHIBA
		DATE:	JAN 21 1969
		FABRICATORS CONT. NO.	W.T.C. 221
		PLATE	
		IN CHARGE OF PROD. ACT.	
		SHEET NO.	ST2369

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

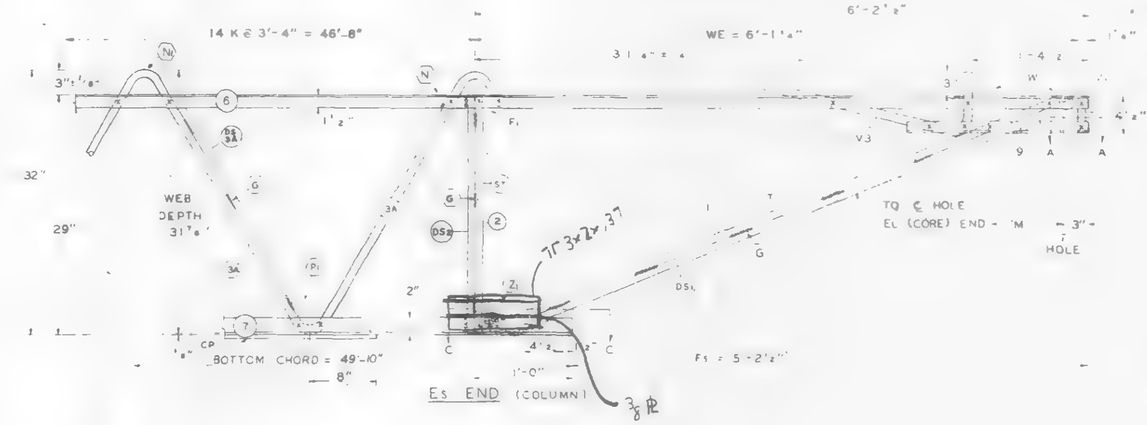
FLOOR TRUSS C32T36N 57'-9" OVERALL

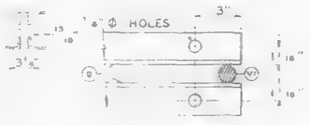
WORLD TRADE CENTER TOWERS A & B

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	± 1/4"	± 3/8"
DESIGN DEPTH	29"	± 4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'	± 3/8"
WEB DEPTH	8"	± 1/



TRUSS ELEVATION



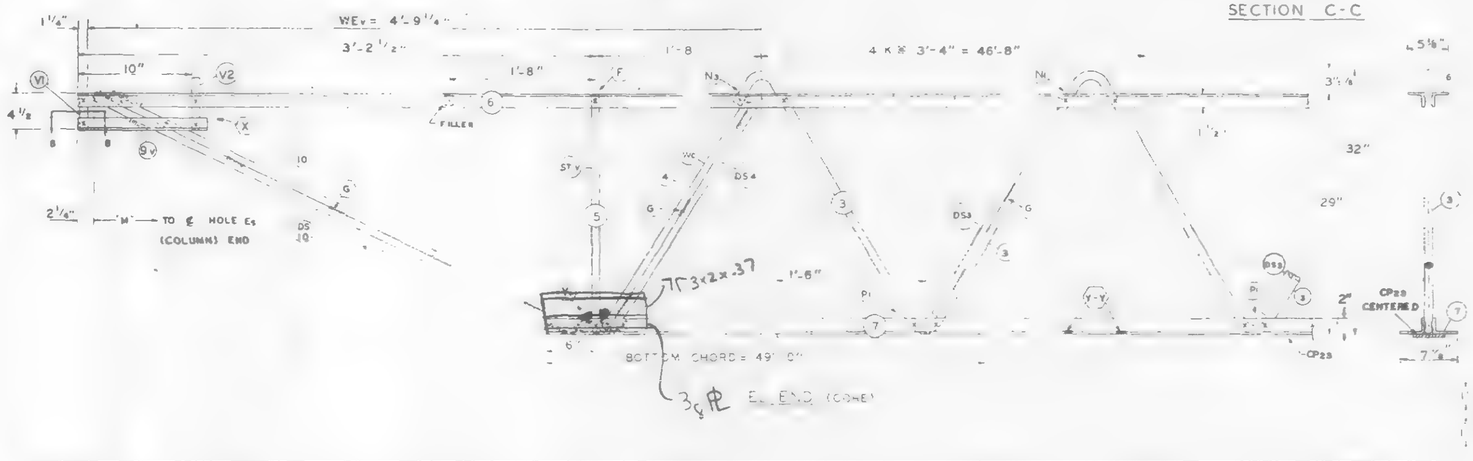


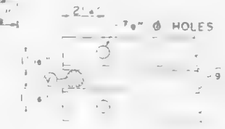
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R1

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS





SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T36N-579	6	A242	2"x1 1/2"x 31	57'-9"	7	A36	3"x 2"x 37	49'-10"	3 3A	A242 A242	1.14 1.14	33'-4 3/4" 34'-8 1/2"	8 1/2 R @ 3'-4" = 28'-4" 5 1/2 R @ 3'-4" = 18'-4"	11	1.14	57'-3 3/4"	—	—	—	CP 23	A36	4½"x 39	45'-6"	DS2	A242	.75	2'-4 7/8"

COLUMN END	E5 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER							DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
		C32T36N-579	9	A242	2"x1"x 25	2'-3"	6'-1'-4"	1	A242	1.14	6'-3'-8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8	A242	1.14	2'-9 1/2"	DS1	A242	92	6'-3'-8"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	F5
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT			
MK	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

CORE END	E1 END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				L STIFFENER MK V1			MK V2				WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE (PROD) STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T36N-579	9	A242	2"x1"x 25	1'-0"	4'-9 1/4"	10	A242	1.14	3'-7 3/8"	5	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8	A242	1.14	7 3/8"				4	A242	1	1.14	2'-9 1/2"	DS 4	A242	92	2'-9 1/2"	DS 10	A242	.75	3'-7 3/8"	DS 3	A242	92	2'-6 3/4"

REF DRWG.

7-A81-32	1-6-69
7-A84-50	8-1-68
7-A83-41	1-6-69
7-A81-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T36N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-A81-32 PLATE

APPROVED FOR FABRICATION BY FOR PONYA DATE

DRAWN BY R.A.R DATE JAN 20 1969

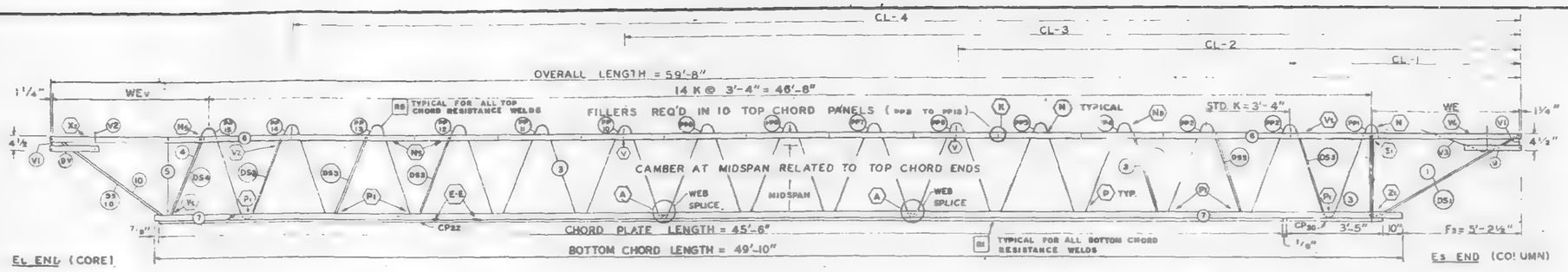
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE

CHECKED BY T.M.CHURA DATE JAN 21 1969 IN CHARGE OF PROD. DEP'T

DETAILED BY A.C. WEBER

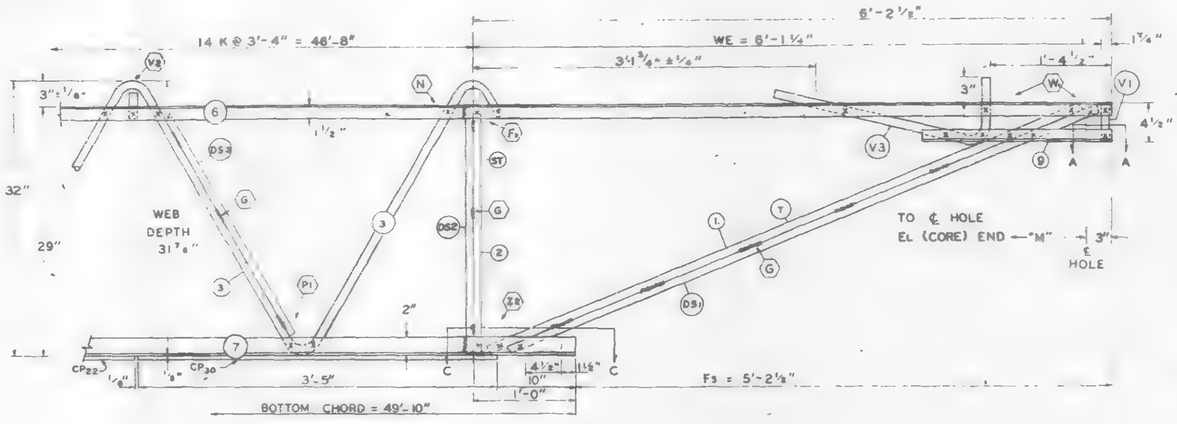
FABRICATION CONT NO WTC 221

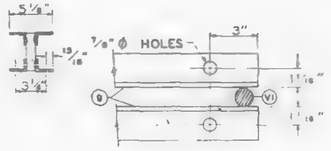
SHEET NO ST236N



TRUSS ELEVATION

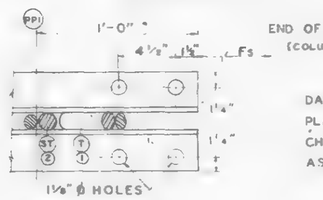
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/8"





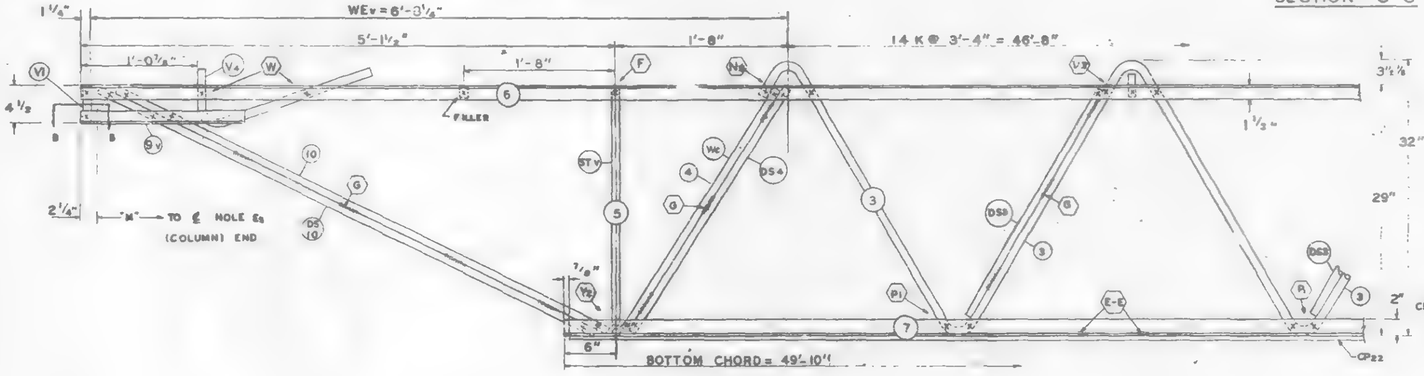
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (IIIIIIII)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie. RH

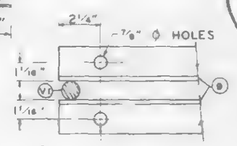


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-38	1-0 88
7-AB4-30	8-1-88
7-AB3-41	1-8-88
7-AB1-33	7-28-88

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD "W" TWO ANGLES				MAIN WEB "W"					FILLER	℄ "M" HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	PL EEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		D	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37C-598	6	A242	2"x1 1/2"x.37	59'-8"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4"= 46'-8"	11	1.14	59'-2 3/4"	4	1.14	3"	CP 22	A36	6 1/2"x.50	45'-6"	DS 2	A242	.75	2'-4 7/8"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32 ..C 598	9	A242	2"x1 1/2"x .37	2'-3"	6'-1 1/2"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 7/8"	A242	1.14	2'-9 1/2"	DS 3	A242	1.14	6'-3 1/8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "N" STRUT				VERTICAL "SV" STRUT				END STIFFENER										WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				(8) DOUBLE (REQD) STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	DIA.	LENGTH	EXTRA STIFF.	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	SCD	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T37C 598	9	A242	2"x1 1/2"x .37	1'-6"	6'-8"	10	A242	1.14	5'-4 1/2"	5	A242	1.14	2'-9 1/2"	A242	1.14	2'-9 1/2"	—	—	—	A242	1.14	2'-9 1/2"	A242	1.14	2'-9 1/2"	4	A242	1.14			DS 10	A242	1.14	5'-4 1/4"	DS 8	A242	1.14	2'-9 3/4"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS					
CL-1	CL-2	CL-3	CL-4	Fs	
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2"	

CHORD PLATE				
MK.	TYPE STEEL	SIZE	LENGTH	
CP 30	A36	6 1/2"x.50"	3'-5"	

Truss length not regd

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T37C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

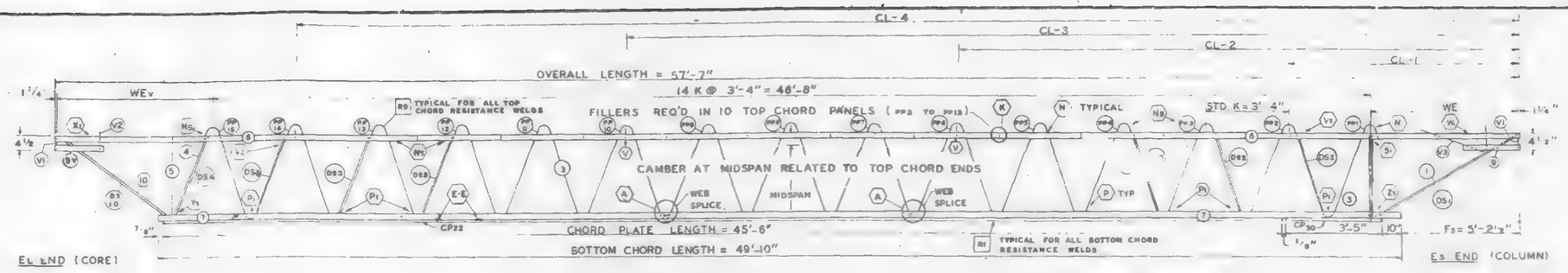
FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: ... FOR P.O.N.Y.A. DATE

APPROVED FOR FABRICATION BY: ... DATE

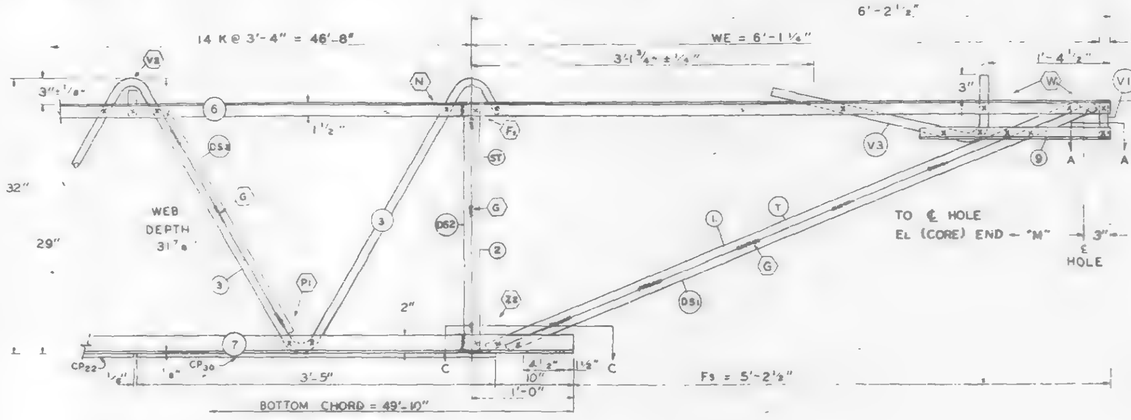
DETAILED BY: A.C. WEBER

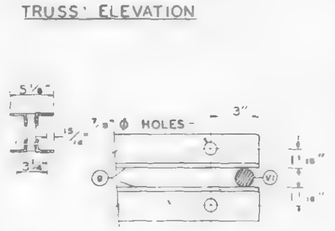
DESIGN DRAWING 7-AB1-33
DRAWN BY: ... DATE: MAY 6 1988
CHECKED BY: ... DATE: MAY 6 1988



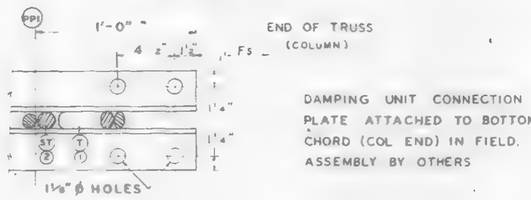
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	± 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



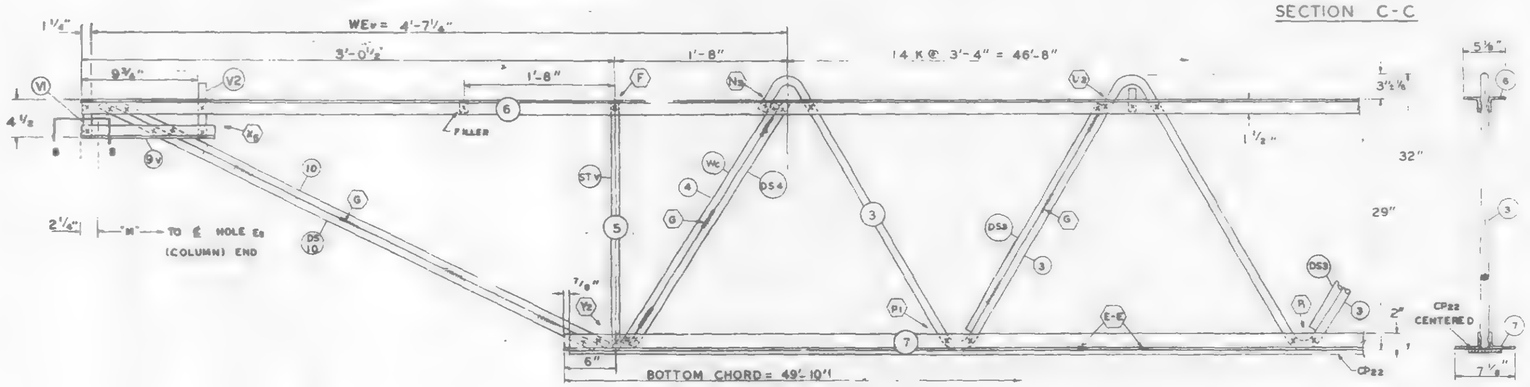


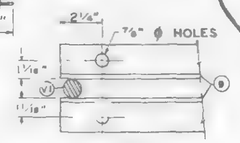
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST285
SEE SHEET ST285 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie., R1



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS





NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-38	1-8-68
7-AB4-30	8-1-68
7-AB3-41	1-8-68
7-AB1-38	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF X	NO.	DIA.		NO	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
C32T37P 577	6	A242	2"x1½"x.37"	57'-7"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4	14 @ 3'-4" = 46'-8"	11	1.14	57'-1 3/4"	4	1.14	3"	CP 22	A36	6½"x.50	45'-6"	DS 1	A242	.75	2'-4"±

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "I" STRUT				VERTICAL "ST" STRUT				END STIFFENER								DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA	LGTH
	C32T37P 577	9	A242	2"x1½"x.37"	2'-3"	6'-1¼"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"	A242	1.14	2'-9 1/2"	DS 2	A242	1.14	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	2'/2"

CHORD PLATE				
MK.	TYPE STEEL	SIZE	LENGTH	
CP 30	A36	6½"x.50"	3'-5"	

Ee END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "V" STRUT				VERTICAL "STv" STRUT				END STIFFENER "Wc"										WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(8) DOUBLE REQD ST T			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TY STEEL	A	LENGTH
	C32T37P 577	9	A242	2"x1½"x.37"	11¾"	4'-7¼"	10	A242	1.41	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"	A242	1.41	7 3/8"				4	A242	1	1.14	2'-9"	8	A242	1.14	2'-9 1/2"	10	A242	1.14	3'-7"	8	A242	1.14	2'-6 5/8"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T37P 57'-7" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

APPROVED FOR FABRICATION BY: _____ FOR P.O.N.Y.A. DATE: _____

APPROVED FOR FABRICATION BY: _____ FOR FABRICATOR DATE: _____

DETAILED BY: LACLEDE STEEL CO.

DESIGN DRAWING NO. 7-AB1-38 SHEET 4

DRAWN BY: _____ DATE: MAY 8, 1968

CHECKED & RELEASED BY: _____ DATE: MAY 8, 1968

FABRICATION CONTROL NO. 22

IN CHARGE OF PROD. BY: _____

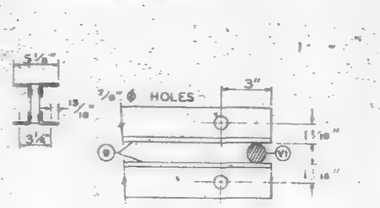
PLATE 4

VOID

True length not req'd

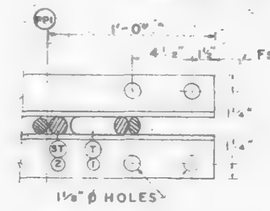
TRUSS ELEVATION

FABRICATION TOLERANCES		
	DESIGN	TOLERANCE
CAMBER AT ℄ SPAN	2 1/4"	± 1/8
DESIGN DEPTH	32	± 1/8"
PANEL "K"	5'-6"	± 1/16"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 1/8"	± 1/4"



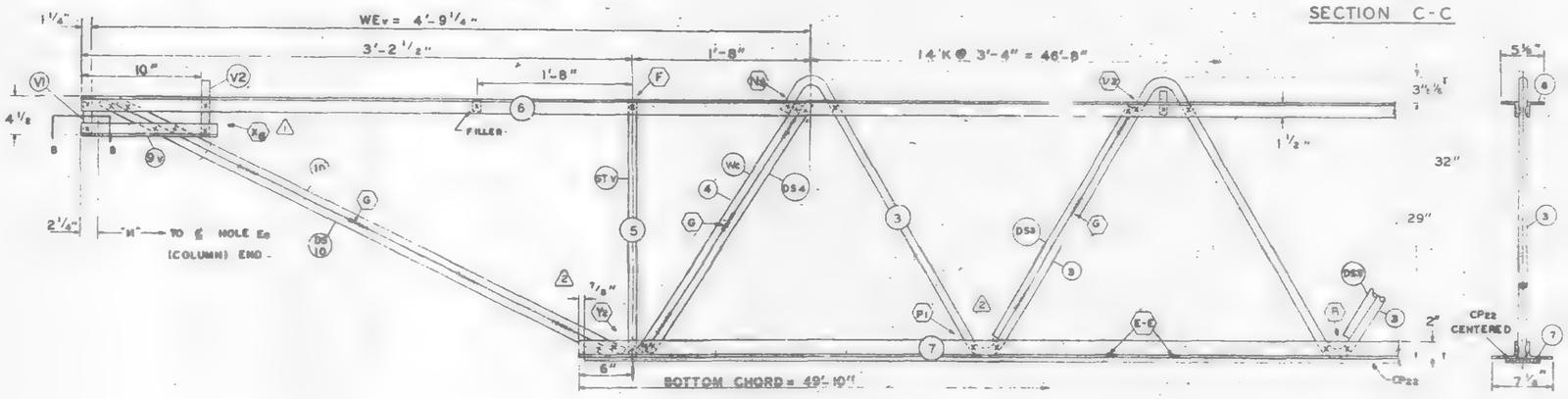
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▨)
ALL WELD DETAILS SHOWN ON SHEETS ST29C -ST29H AND ST28C △
SEE SHEET ST29S FOR V1, V2 V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH - IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie. R1

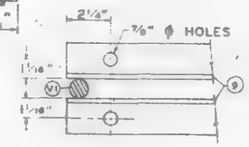


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
2	2-26-69	AS NOTED	G.D.
1	2-18-69	AS NOTED	T.M.

REF DRWG.

7-A81-32	1-6-68
7-A84-30	8-1-68
7-A83-41	1-6-68
7-A81-33	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		℄ "M" HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1½"x.37"	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/16"	4	1.14	3"	CP22	A36	8½"x.50	45'-6"	DS6	A242	.75	2'-4 7/8"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			MK. V3		DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		LENGTH	MK.	TYPE STEEL	DIA	LGTH
	C32T37N-579	9	A242	2"x1½"x.37"	2'-3"	6'-1¼"	1	A242	1.14	6'-3 1/16"	2	A242	1.14	2'-4 5/8"	A242	1.14	4 3/8"	A242	2'-9 1/2"	A242	1.14	6'-3 1/16"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10"	36'-2 1/2"	49'-6 1/2"	5'-2 1/8"

CHORD PLATE (2)

MK.	TYPE STEEL	SIZE	LENGTH
CP 22 CP 30	A36	6½"x.50"	3'-5"

CORE END

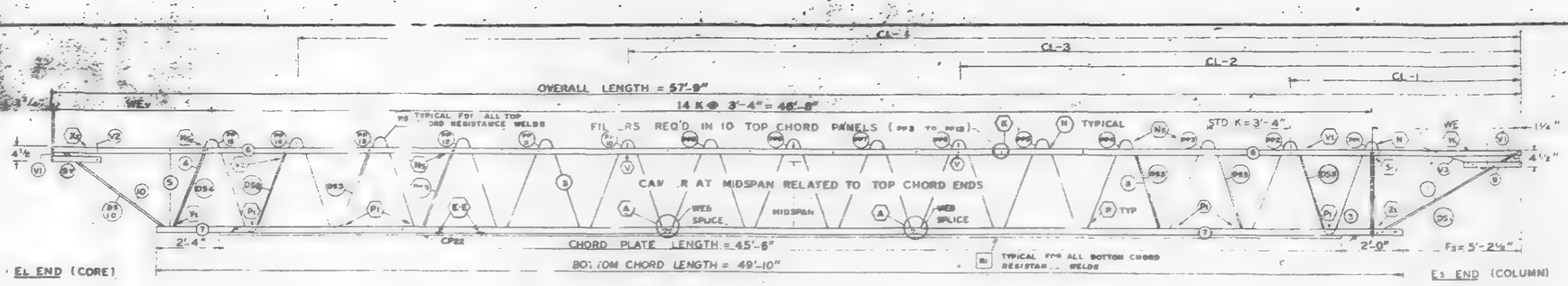
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "N" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			WEB "W"				DOUBLE STRUT			DOUBLE STRUT			(6) DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	DIA.	LENGTH	MK.	TYPE STEEL	PC'S	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T37N-579	9	A242	2"x1½"x.37"	1'-0"	4'-9 1/4"	10	A242	1.14	3'-8 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 7/8"				4	A242	1	1.14	2'-9 1/2"		A242	1.14	2'-9 1/4"		A242	1.14	3'-6 1/4"		A242	1.14	2'-8 3/4"

FABRICATION BY	LACLEDE STEEL COMPANY	
FABRICATED AT:	MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AM-88 PLATE
APPROVED FOR FABRICATION BY:	FOR P.O.N.Y.A.	DATE 2-4-69
APPROVED FOR FABRICATION BY:	FOR FABRICATOR	DATE
DETAILED BY	A.C. WEBER	DRAWN BY: T.M. DATE: JAN. 20, 1969
		CHECKED BY: T.B. WEBER DATE: JAN. 21, 1969
		FABRICATION CONT. NO. W.T.C. 221
		1ST CHANGE OF PROD. REV.
		SHEET NO. ST 237 M

LACLEDE STEEL CO.

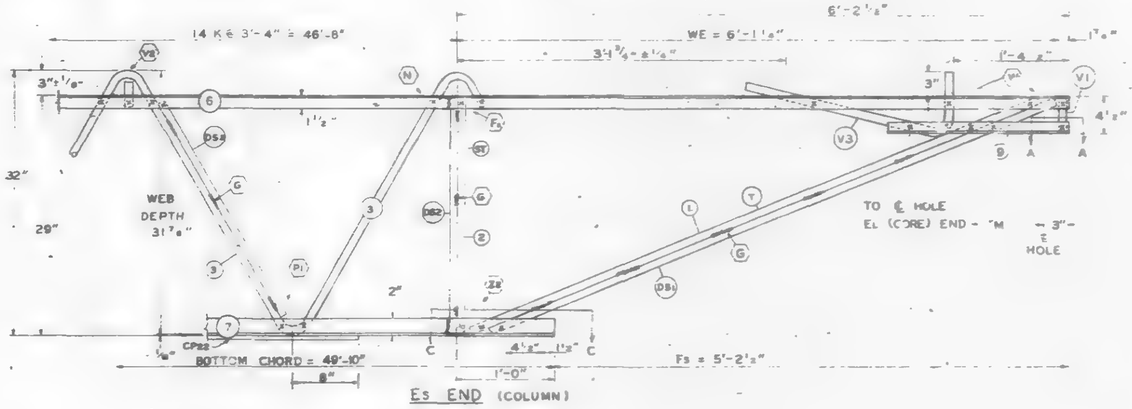
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

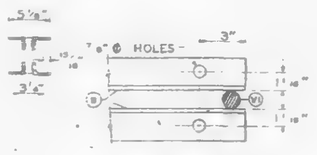
FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B



TRUSS ELEVATION

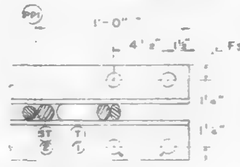
FABRICATION DIMENSIONS		
CAMBER AT MIDSPAN		4 7/8
DESIGN DEPTH	32"	5 1/2
PANEL "K"	3'-4"	3 1/4
OVERALL LENGTH	57'-9"	3/8"
WEB DEPTH	IN 7/8	29 1/4





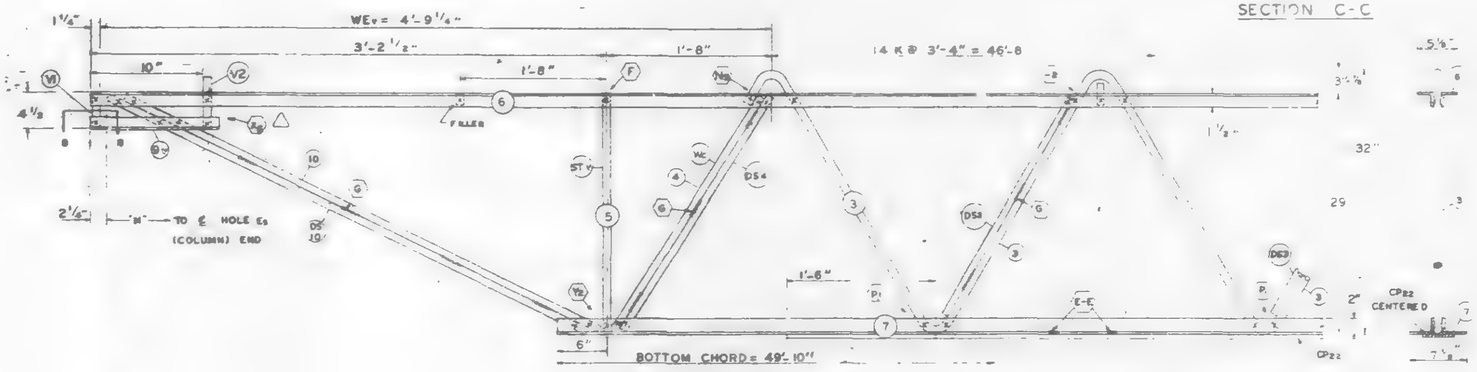
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST280 - ST284 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. NO. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. (R5)

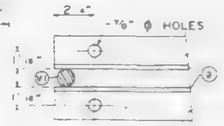


DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS

SECTION C-C



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
△	2-19-69	AS NOTED	TMC

REF. DRWG.

7-ABI-38	1-6-69
7-AB4-50	8-4-68
7-AB3-41	1-6-69
7-ABI-58	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1 1/2"x.37"	57'-9"	7	A36	3"x 2"x.37	49'-10"	3	A242	1.14	88'-1 1/4	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/4"	4	1.14	3"	CP B2	A36	6 1/2"x.50	45'-8"	DS 2	A242	.75	2'-4 7/8"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 SIZE	MK V3 LENGTH	MK	TYPE STEEL	DIA	LGTH.
COLUMN END	C32T37N-579	9	A242	2"x1 1/2"x.37"	2'-3"	6'-1 1/8"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	9 1/2"	DS 1	A242	1.14	6'-3 1/8"

	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "V" STRUT				VERTICAL "SV" STRUT				END STIFFENER								WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				(6) DOUBLE DIAGONAL STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK 2 TYPE STEEL	MK 2 DIA	MK 2 LENGTH	MK V6 TYPE STEEL	MK V6 DIA	MK V6 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END	C32T37N-579	9	A242	2"x1 1/2"x.37"	1'-0"	4'-9 1/4"	10	A242	1.14	3'-8 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"				4	A242	1	1.14	2'-9 1/8"	DS 10	A242	1.14	2'-9 1/8"	DS 10	A242	1.14	3'-8 1/4"	DS 3	A242	1.14	2'-8 5/8"

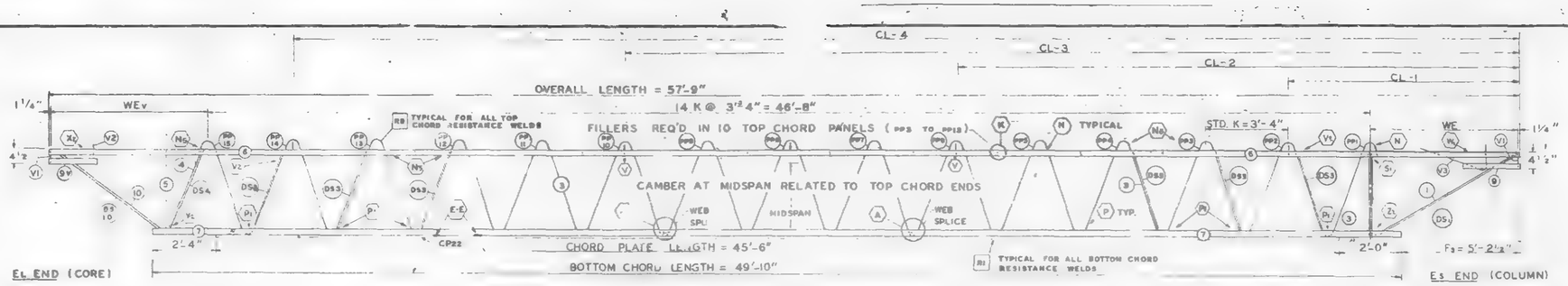
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
THE PORT OF NEW YORK AUTHORITY

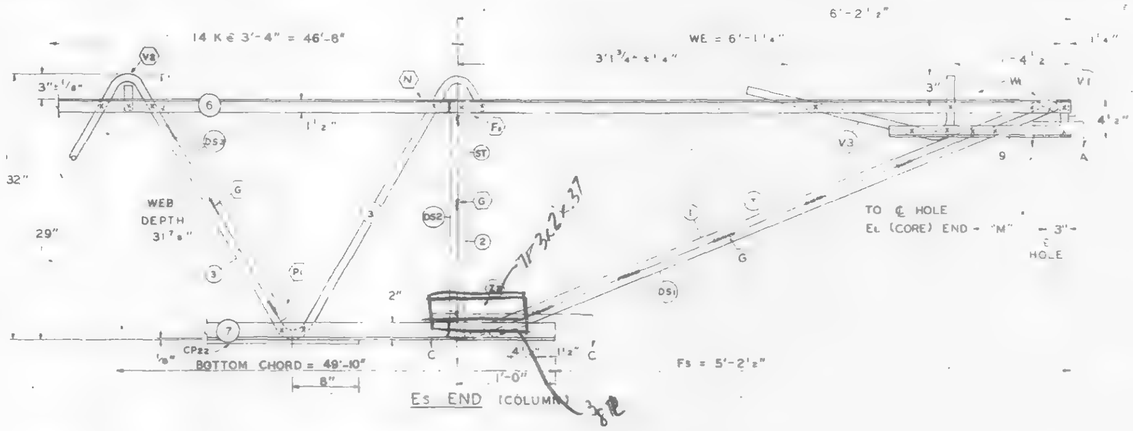
FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: FOR FABRICATOR
DETAILED BY: A.C.
SHOP DRAWING NO. 2-AC-28 PLATE
CHECKED BY: T.M.C.
FABRICATION CONT. NO.
WT. ± 2%
SHEET NO. ST 294



TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± "
OVERALL LENGTH	57'-9"	"
WEB DEPTH	31 7/8"	± 1/4"

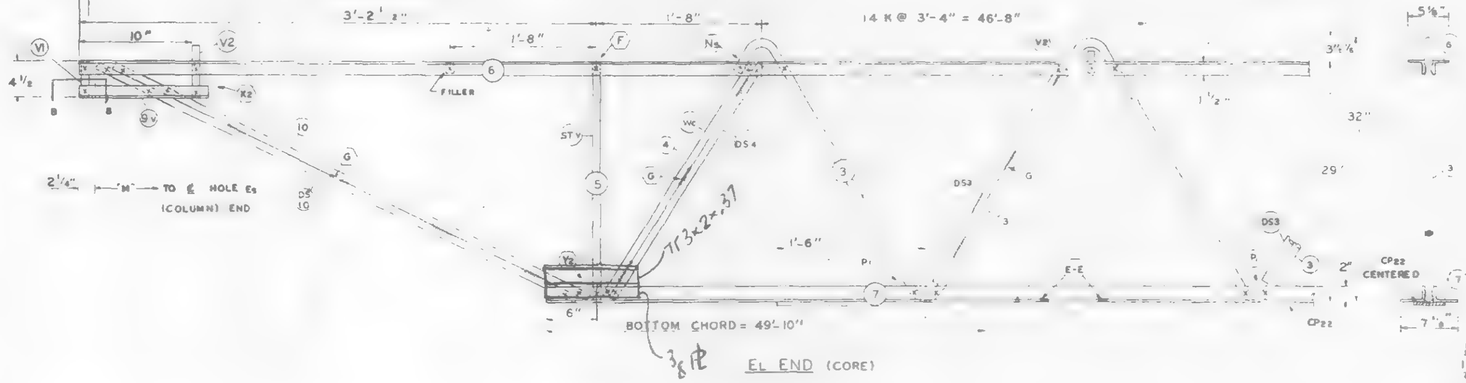


SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (typ)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie RI

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.



SECTION B-B

REF DWG.

7-AB1-38	1-6-68
7-AB4-50	8-1-68
7-AB3-41	1-6-68
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 1006

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					"F" FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1 1/2"x 37	57'-9"	7	A36	3"x 2"x 37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3' 4" = 46'-8"	11	1.14	57'-3 3/4"	4	1.14	3"	CP22	A242	8 1/2"x .50	45'-6"	DS2	A242	.75	2'-4 7/8"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			MK. V3			DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
		C32T37N-579	9	A242	2"x1 1/2"x.25	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	DS3	A242	1.14	6'-3 1/8"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "TV" STRUT				VERTICAL "STV" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(8) DOUBLE (REQD) STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T37N-579	9	A242	2"x1 1/2"x.25	1'-0"	4'-9 1/4"	10	A242	1.14	3'-7 3/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"				4	A242	1	1.14	2'-9 1/2"	DS2	A242	1.14	2'-9 1/2"	DS1	A242	1.14	3'-7 3/8"	DS3	A242	1.14	2'-6 3/4"

CHECK DIMENSION FOR TRUSS FAB.

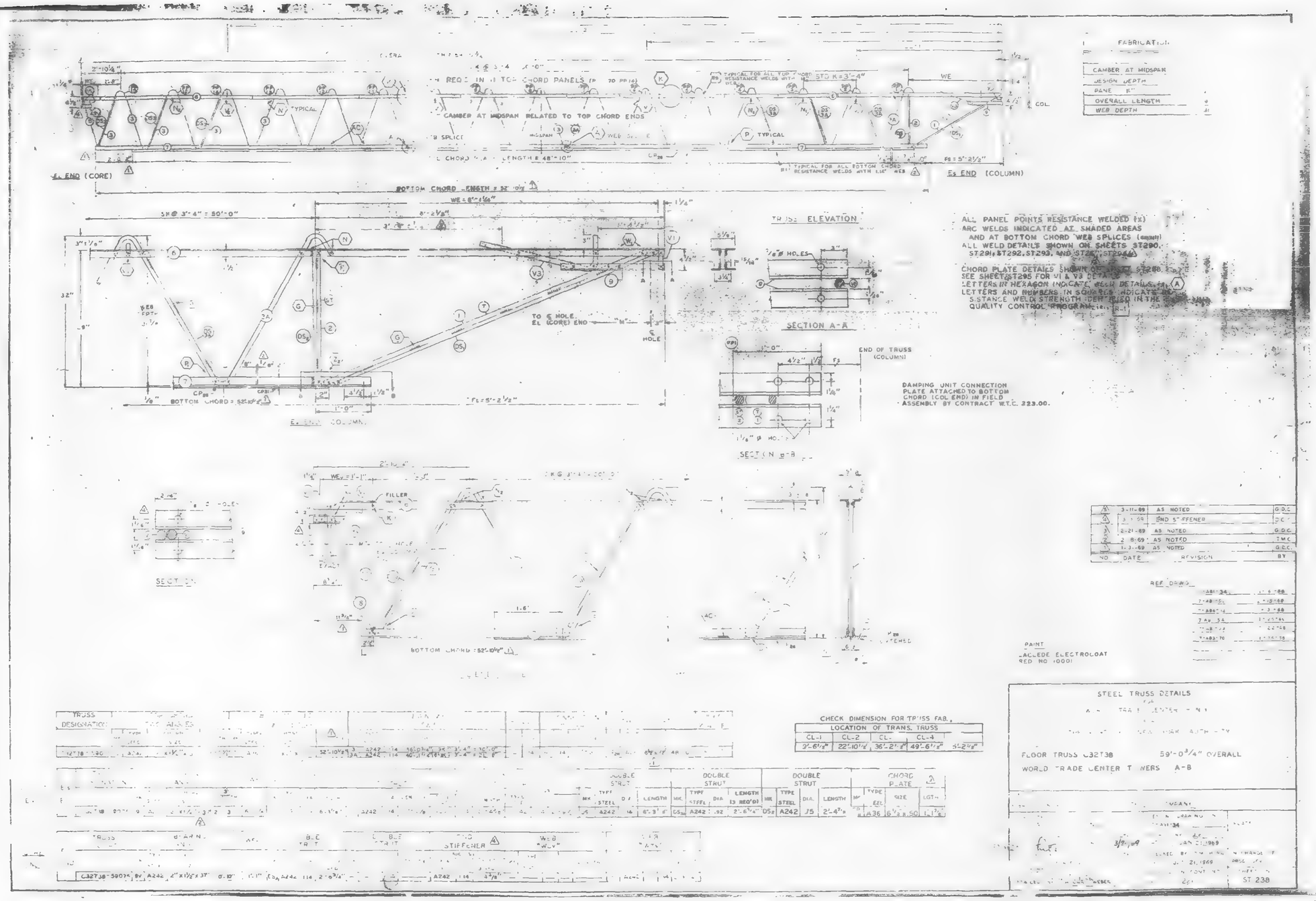
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

X
2/14/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-38 PLATE
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A. DATE ____
DRAWN BY: P.B DATE: JAN. 20 1969
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE
CHECKED BY: T.N.CHUBA DATE JAN. 21, 1969 IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST237N



NO	DATE	REVISION	BY
4	3-11-69	AS NOTED	G.D.C.
3	3-1-69	END STIFFENER	G.D.C.
2	2-21-69	AS NOTED	G.D.C.
1	2-18-69	AS NOTED	T.M.C.
	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

STEEL TRUSS DETAILS

FLOOR TRUSS G32T38 59'-0 3/4" OVERALL

WORLD TRADE CENTER TOWERS A-B

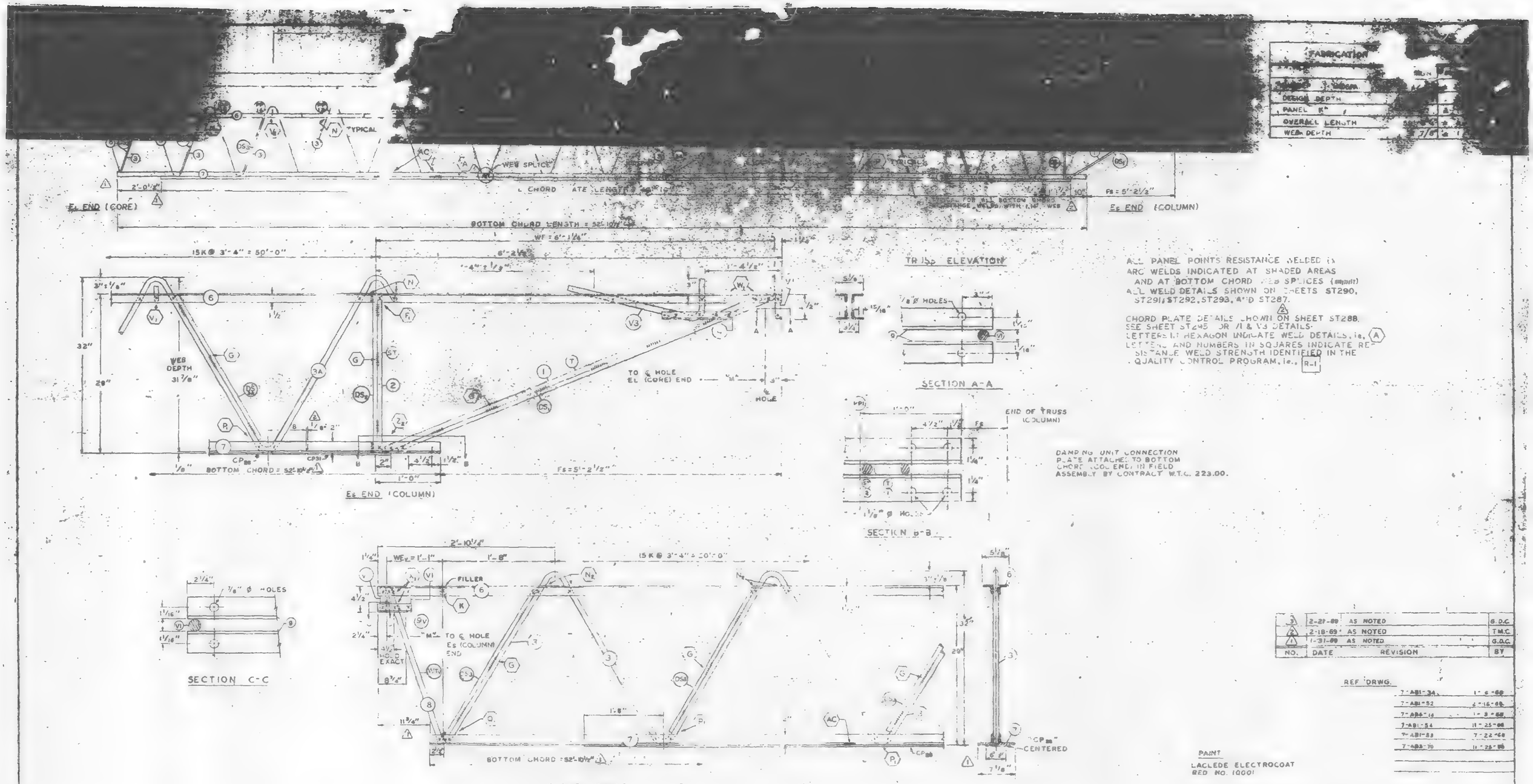
DRAWN

CHECKED

DATE JAN 21, 1969

SCALE

SHEET ST 238



ALL PANEL POINTS RESISTANCE WELDED (1) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (typ.) (2) ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

(2) CHORD PLATE DETAILS SHOWN ON SHEET ST288. SEE SHEET ST285 FOR V1 & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e., (A) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

FABRICATION	
DESIGN DEPTH	
PANEL #	
OVERALL LENGTH	
WEB DEPTH	7/6

NO.	DATE	REVISION	BY
3	2-27-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-ABI-34	1-6-68
7-ABI-52	2-16-68
7-ABI-14	11-3-68
7-ABI-54	11-25-68
7-ABI-83	7-22-68
7-ABI-70	11-26-68

PAINT
LACLEDE ELECTROCOAT RED NO. 10001

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

TRUSS DESIGNATION	BEARING ANGLE		WEB	DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT				CHORD PLATE			
	MK.	TYPE STEEL	DIA	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH (3 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LGTH
Es END C32T38-59075	9	A242	2" x 1 1/2" x 3/8"	DS1	A242	.14	6'-3 1/8"	DS2	A242	.92	2'-6 3/16"	DS3	A242	.75	2'-4 7/8"	CP38	A36	6 1/2 x 50	1'-7 1/8"

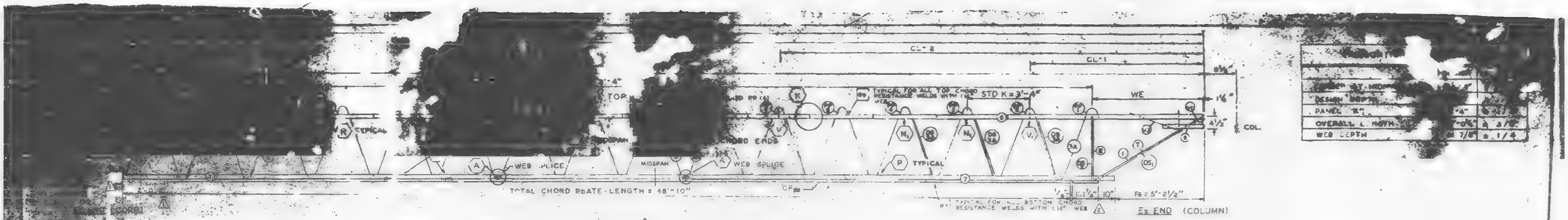
TRUSS DESIGNATION	BEARING ANGLE		WEB	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER				WEB "WEV"				WEB "WTV"			
	MK.	TYPE STEEL	DIA	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH (3 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
Es END C32T38-59075	9	A242	2" x 1 1/2" x 3/8"	DS1	A242	.14	6'-3 1/8"	DS2	A242	.92	2'-6 3/16"	DS3	A242	.75	2'-4 7/8"	WEV	A242	.14	2'-6 3/4"	WTV	A242	.14	2'-6 3/16"

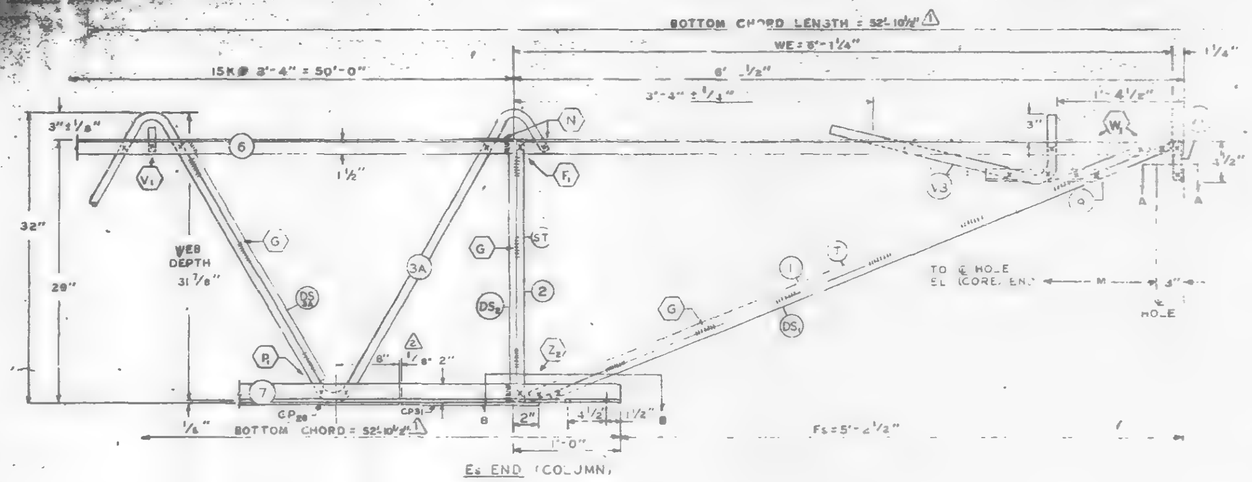
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

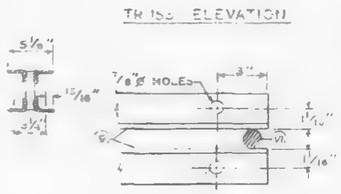
FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

LACLEDE STEEL COMPANY

DRAWN BY ABI-34 DATE 3/4/69
CHECKED BY TM CHUPA DATE JAN 21, 1969
APPROVED BY DATE JAN 21, 1969
FABRICATION CONT. NO. 221
SHEET NO. ST 238

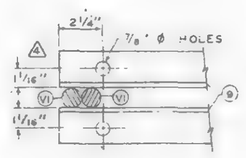


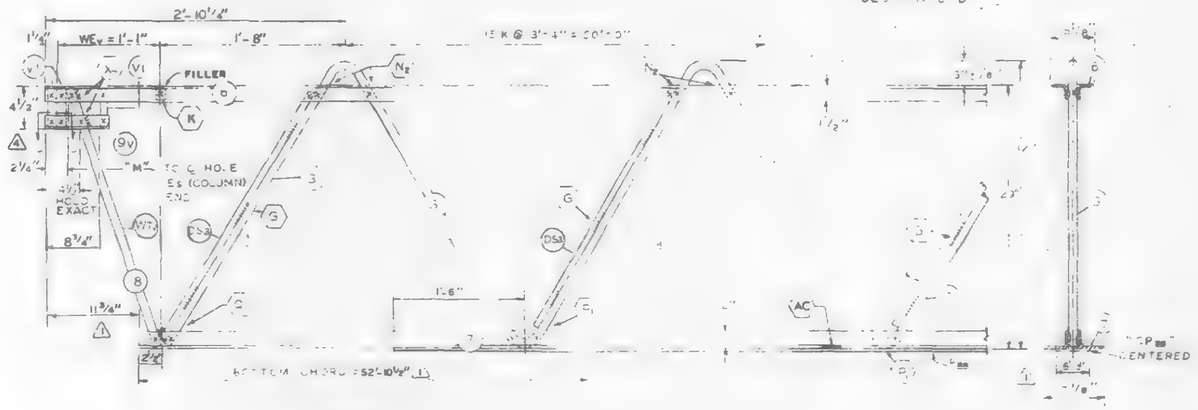




DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHOR. (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 22s.00.

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmm)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287, ST294 (4)
(2)
CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST286 FOR V2 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1





NO.	DATE	REVISION	BY
4	3-3-69	END STIFFENER	D.C.C.
3	2-21-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-34	1-6-68
7-AB1-52	2-15-68
7-AB4-14	10-3-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
3'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/8"

TRUSS DESIGNATION	TOP CHORD MK	TOP CHORD TYPE & SIZE	TOP CHORD LGTH	WEB MK	WEB TYPE & SIZE	WEB LGTH
C32T38-59075	6	A242 2"x1/4"x3'-2"	52'-10 1/2"	3	A242 1.14	"K"=6'-0 3/4" (15K @ 3'-4" = 50'-0")
				3A	A242 1.14	"K"=40'-11 13/16" (12K @ 3'-4" = 40'-0")
				14		"K"=5'-4" = CL-B"

COLUMN END Es END	TRUSS DESIGNATION	BOTTOM CHORD MK	BOTTOM CHORD TYPE & SIZE	BOTTOM CHORD LGTH	WEB MK	WEB TYPE & SIZE	WEB LGTH
	C32T38-59075	9	A242	2"x1 1/4"-3'-2"	3	A242	1.14
					14		6'-3 1/8"

TRUSS DESIGNATION	BOTTOM CHORD MK	BOTTOM CHORD TYPE & SIZE	WEB	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEB "W"	WEB "WV"
C32T38-59075	9V	A242 2"x1 1/4"x3'-3"	6'-10"	1'-1"	Es A242 1.14	2'-8 3/4"	A242 1.14	4'-5 1/8"
							8 A242 1.14	2'-8 3/4"

DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
DS1	A242	1.14	6'-3 1/8"

DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH (3 REQ'D)
DS3A	A242	.92	2'-6 3/4"

DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
DS2	A242	.75	2'-4 3/8"

CHORD PLATE MK	TYPE STEEL	SIZE	LGTH
CP	A36	6 1/2"x.50	1'-7 7/8"

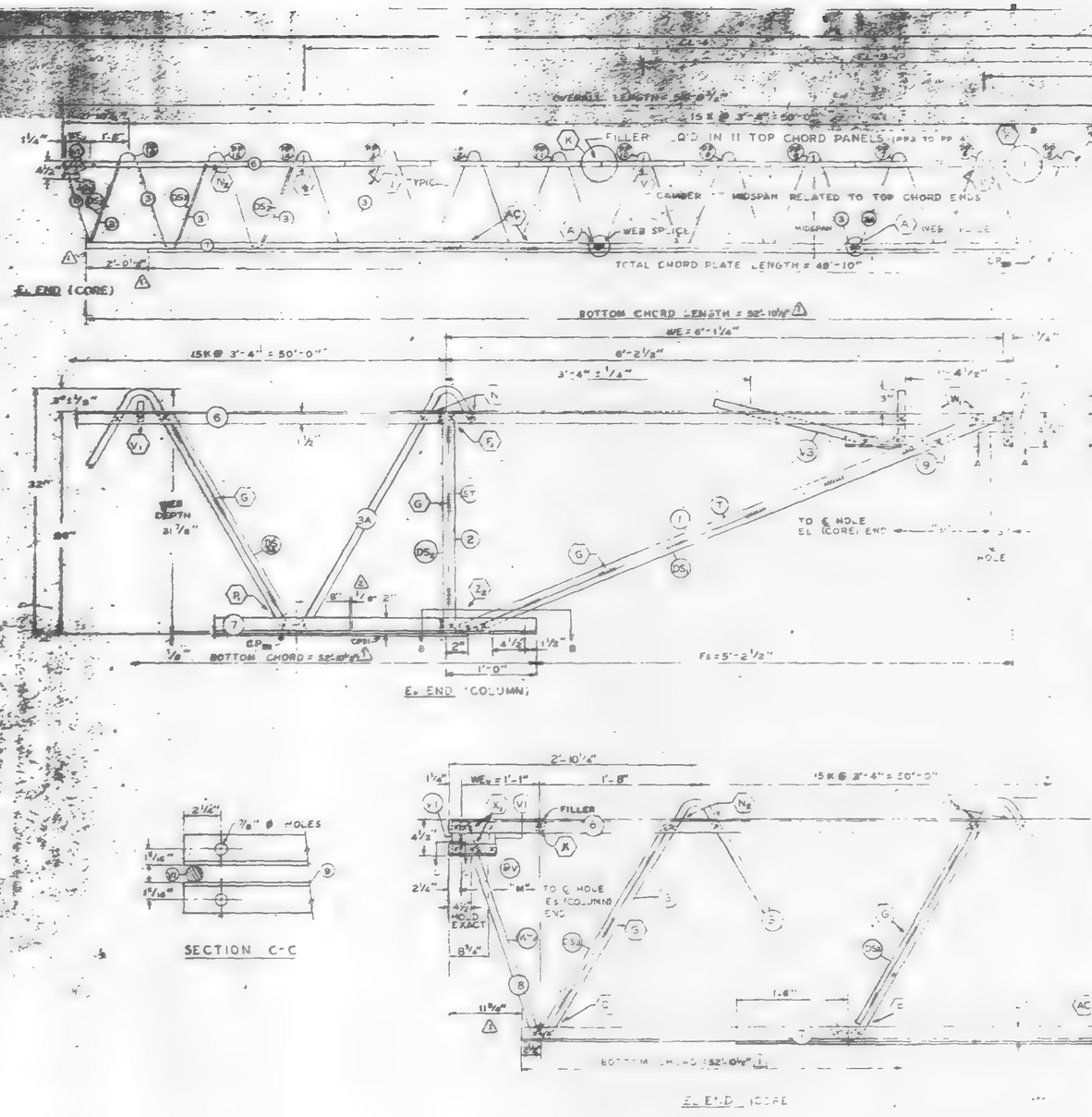
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

DRAWING NO. 7-AB1-34
DATE JAN 21, 1969
SHEET NO. ST 238

James White 3/10/69

ACLEDE STEEL CO.



FABRICATION REQUIREMENTS		
	DESIGN	SHOP
CAMBER AT MIDSPAN	2 1/4"	2"
DESIGN DEPTH	32"	32"
PANEL "K"	3'-4	± 1/16"
OVERALL LENGTH	59'-0 3/4"	± 3/16"
WEB DEPTH	31 7/8"	±

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (SHOP)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST245 FOR V1 & V3 DETAILS
LETTERS (A) HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS & NUMBERS IN SQUARES INDICATE REQUIRED WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD END, IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
2	2-28-69	AS NOTED	ENLC
1	1-31-69	AS NOTED	B.A.C.

REF. DRWG.

7-ABM-34	1-8-68
7-ABM-63	2-15-68
7-ABM-14	12-3-64
7-ABM-64	8-26-68
7-ABM-53	7-23-68
7-ABM-70	11-26-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD ANGLES					BOTTOM CHORD					WEB					CAMBER					CHORD PLATE				
	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T38-59075	6	A242	2"x1 1/2"x 3/8"	FOR 1/2"	A2	A242	1/4"	52'-10 1/4"	5	A242	1/4	56'-0 1/4"	3A	A242	1/4	40'-11 1/4"	3	A36	1/4	48'-10"	4	A36	1/4	48'-10"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
3'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/8"

COLUMN END

E. END	TRUSS DESIGNATION	BEARING ANGLES				WEB								DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT				CHORD PLATE			
		MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
	C32T38-59075	9	A242	2"x1 1/2"x 3/8"	6'-10"	1C	A242	6'-3 1/8"	1'-1"	1A	A242	1/4	6'-3 1/8"	A242	1.14	6'-3 1/8"	DS1	A242	.92	2'-6 3/4"	DS2	A242	.75	2'-4 7/8"	CP	A36	1/2 & 5/8	1'-7 1/8"

CORE END

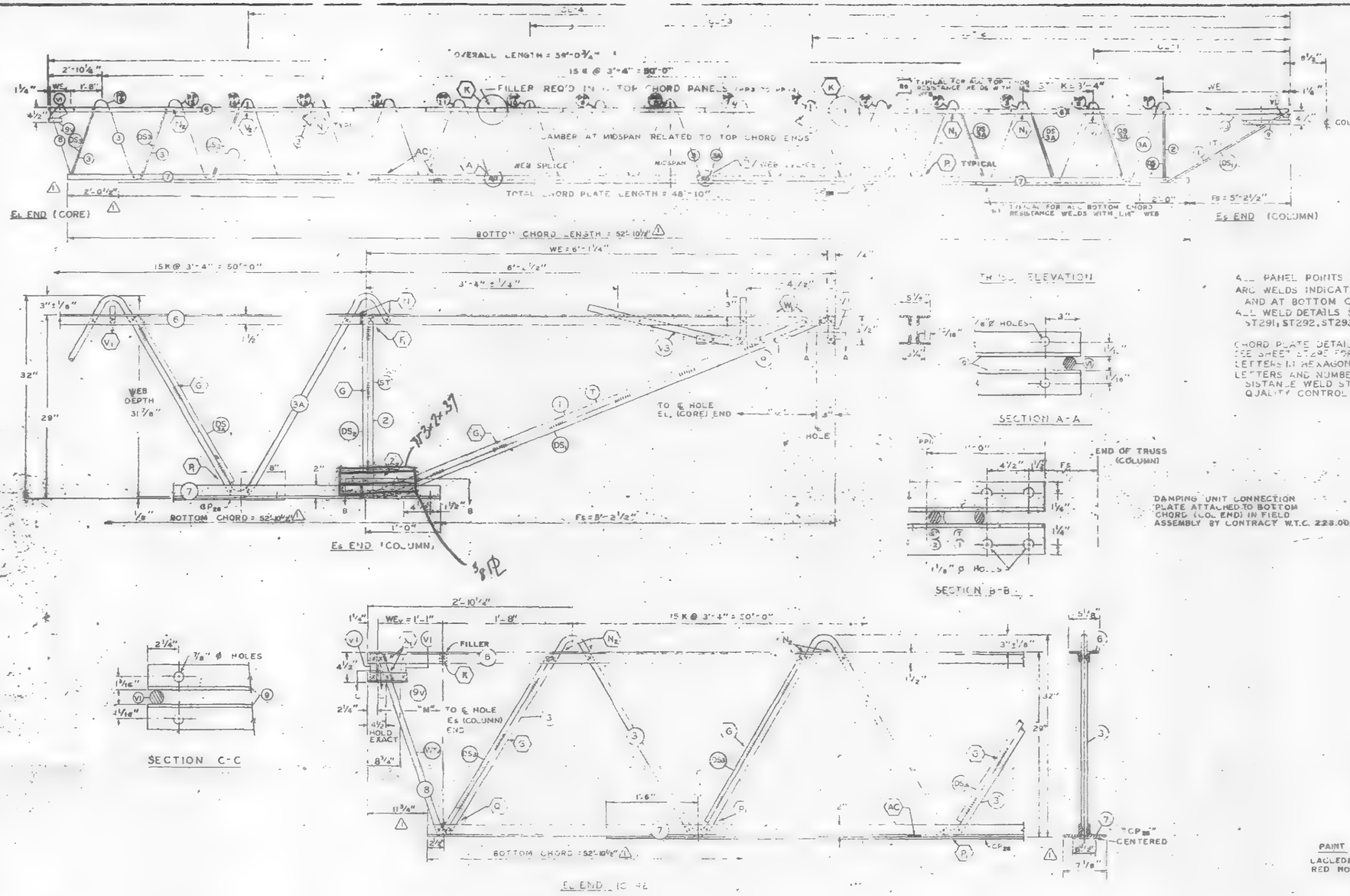
E. END	TRUSS DESIGNATION	BEARING ANGLES				WEB	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER				WEB "WCW"				WEB "WTV"			
		MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
	C32T38-59075	9V	A242	2"x1 1/2"x 3/8"	6'-10"	1C	A242	1.14	2'-6 3/4"	DS2	A242	1.14	4'-7 5/8"	8	A242	1/4	2'-6 1/2"	8	A242	1/4	2'-6 1/2"	1	A242	1/4	2'-6 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATED BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILL.	DESIGN DRAWING NO. 7-ABM-34	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 12/4/68	DRAWN BY MC DATE JAN. 21, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.W.CH.JRA DATE JAN. 21, 1969
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT NO W.T.C. 221	IN CHARGE OF PROD. DEPT. SHEET NO. ST 238



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/64"
OVERALL LENGTH	59	± 3/8"
WEB DEPTH	31 7/8"	± 1/2

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (mmm)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST290 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.B.C.

REF. DRWG.

7-A81-34	1-6-69
7-A81-52	2-15-69
7-A84-14	1-8-68
7-A81-54	11-25-68
7-A81-53	7-22-68
7-A83-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN ARC "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF P	FILLER MK	TYPE STEEL	DIA.	LENGTH	CHORD PLATES MK	TYPE STEEL	DIA.	LENGTH	% HOLES
C32T38-59075	6	A242	2"x1½"x¼" A 37	9'-10"	3	A36	2"x6"x⅜" A 37	52'-10½"	3	A242	1/4	56'-0 3/4"	30	4	A242	1/4	3'-3"	LP	A36	6"	48'-10"	50
					3A	A242	1/4	40'-11 7/16"	24													

CHECK DIMENSION FOR TRUSS FAB.

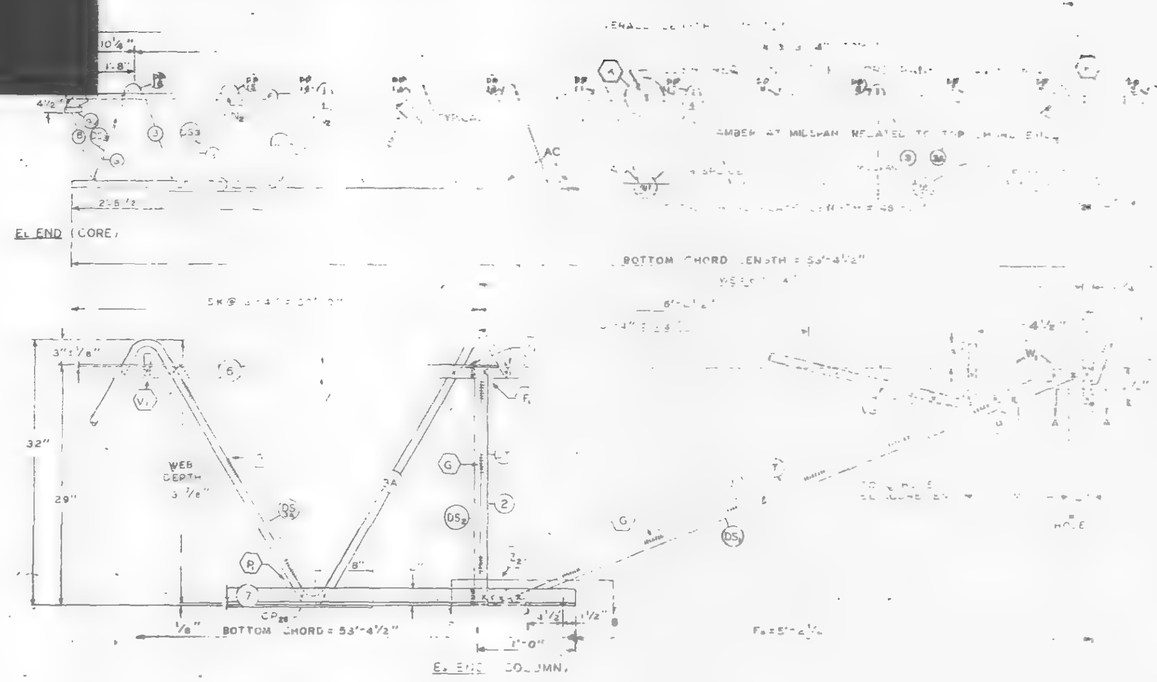
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/8"	49'-6 1/2"	5'-2 1/2"

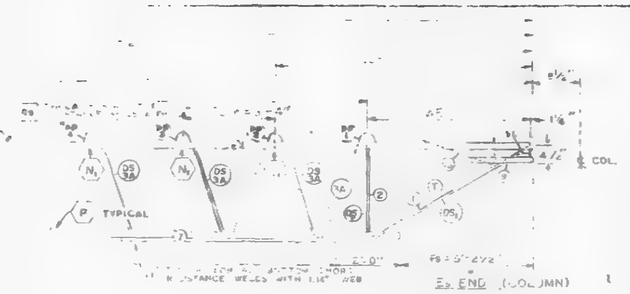
	TRUSS DESIGNATION	TOP CHORD ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	WEB "W" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK	TYPE STEEL	DIA.	LEN. Th	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
COLUMN END Es END	C32T38-59075	9	A242	2"x1½"x.37"	6'-10"	6'-1¼"	A242	.114	6'-3 1/8"	A242	.114	1'-4 7/8"	A242	.114	2'-9¼"	DS1	A242	.114	6'-3 1/8"	DS2	A242	.92	2'-6 3/4"	DS2	A242	.75	2'-4 7/8"

	TRUSS DESIGNATION	TOP CHORD ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK	TYPE STEEL	DIA.	LENGTH	WEB "WV" MK	TYPE STEEL	DIA.	LENGTH	WEB "W" MK	TYPE STEEL	DIA.	LENGTH
CORE END Es END	C32T38-59075	9V	A242	2"x1½"x.37"	6'-10"	1'-1"	DS3 (2 REQ'D)	A242	.114	2'-6 3/4"					4 (2 REQ'D)	A242	.114	2'-6 3/4"					8	A242	.44	2'-6 3/4"

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY	
FLOOR TRUSS C32T38	59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B	
FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-A81-34
APPROVED FOR FABRICATION BY ____ DATE ____ FOR FABRICATION	DRAWN BY dcc DATE JAN 21,1969
APPROVED FOR FABRICATION BY ____ DATE ____ FOR FABRICATION	CHECKED BY T.M.CHURA DATE JAN 21,1969
DETAILED BY A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221
	PLATE —
	IN CHARGE OF PROD. DEV.
	SHEET NO. ST 238

SKILLING-HELLE CHRISTIANSEN-ROBERTSON Structural & Civil Engineers
1/31/69 SK



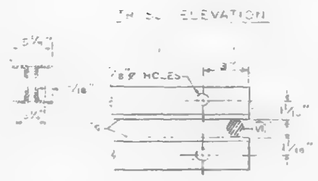


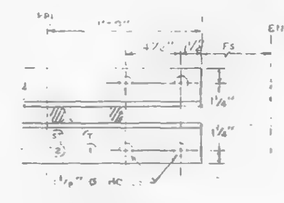
FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1 8"	± 3/8"
DESIGN DEPTH	29"	± 1/
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3/8"
WEB DEPTH		± 1/4

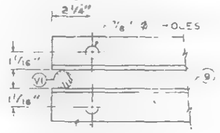
ALL PANEL POINTS RESISTANCE WELDED (S) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (unless) ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

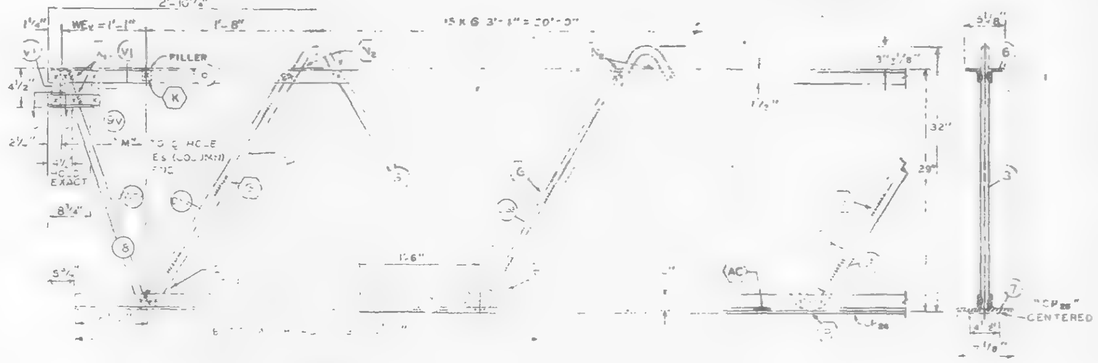
CHORD PLATE DETAILS SHOWN ON SHEET ST288. SEE SHEET ST296 FOR M & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e., (A) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-1





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.





NO.	DATE	REVISION	BY

REF. DRWG.

7-ABI-34	1-6-68
7-ABI-52	2-15-68
7-AB4-14	1-3-68
7-ABI-54	11-25-68
7-ABI-56	7-22-68
7-AB3-70	11-25-68

VOID

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
2'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

TRUSS DESIGNATION	DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH
	DS1	A242	1.14	6'-3' 8"	DS3A	A242	.92	2'-6³/₁₆"	DS2	A242	.75	2'-4⁷/₁₆"

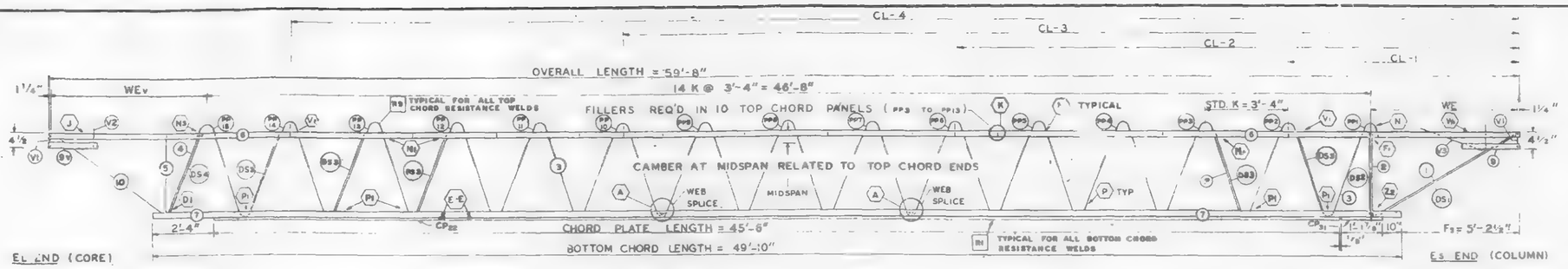
STEEL TRUSS DETAILS

FLOOR TRUSS G32T38 — 59'-0¾" OVERALL

WORLD TRADE CENTER TOWERS — A-8

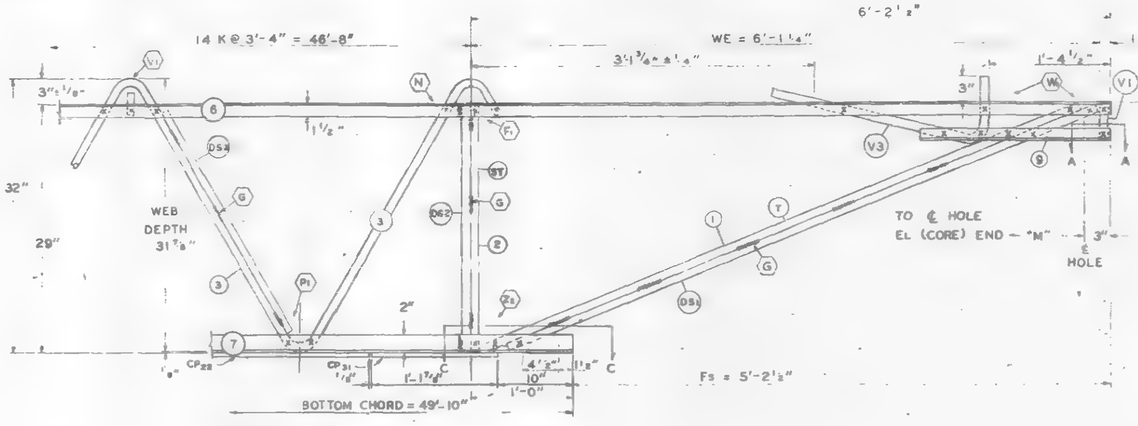
FABRICATION BY LACLEDE STEEL COMPANY

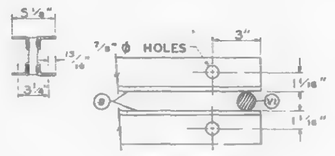
FABRICATED BY MACTON, MO.		DRAWING NO. 7-ABI-34	
ISSUED FOR FABRICATION DATE		DRWG. NO. DATE JAN 21, 1969	
APPROVED FOR FABRICATION DATE		CHECKED BY ENGINEER IN CHARGE OF FABRICATION DATE JAN 21, 1969	
DETAILED BY A. [illegible] WEBER		FABRICATION CONTRACT NO. 221	SHEET NO. ST 238



TRUSS ELEVATION

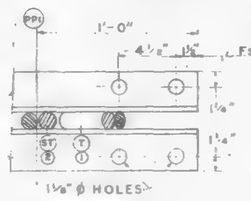
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





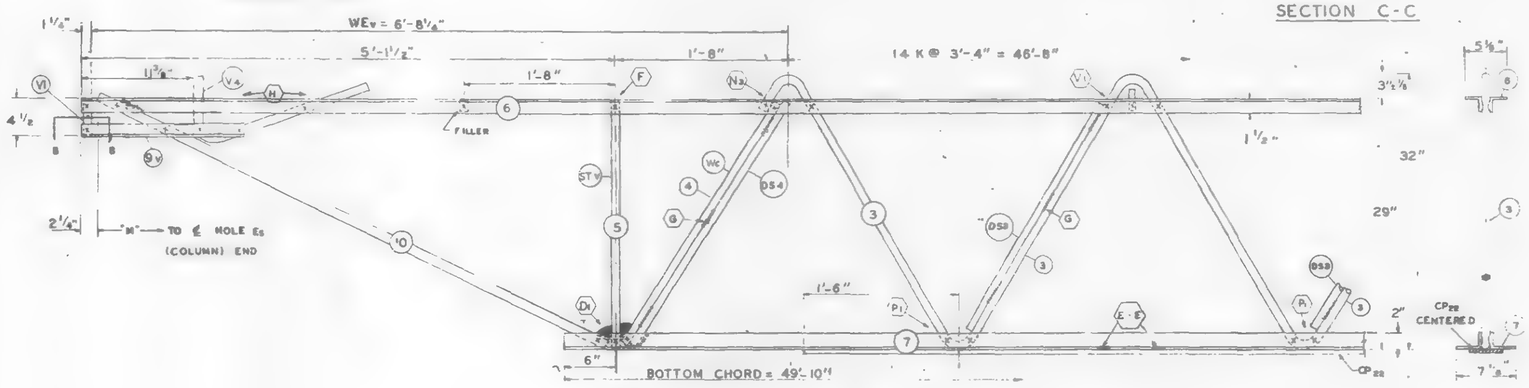
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (filling)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS (e.g. A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH (IDENTIFIED IN THE QUALITY CONTROL PROGRAM (e.g. R1)

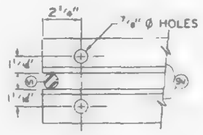


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

VOID

NO.	DATE	REVISION	BY

True length not req'd

REF DRWG	
7-A81-35	1-6-67
7-A84-50	8-1-68
7-A83-41	1-6-69
7-A81-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T39C-598	6	A242	2"x1 1/2"x.37	59'-8"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	59'-2 3/4"	4	1.14	3"	CP22	A36	6 1/2" x 1/2"	45'-6"	DS2	A242	.75	2'-4"	CP31	A36	6 1/2" x 1/2"	1'-1 7/8"

COLUM E.D

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "I" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LGTH.
	C32T39C-598	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	1.14	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	2 1/8"

CORE END

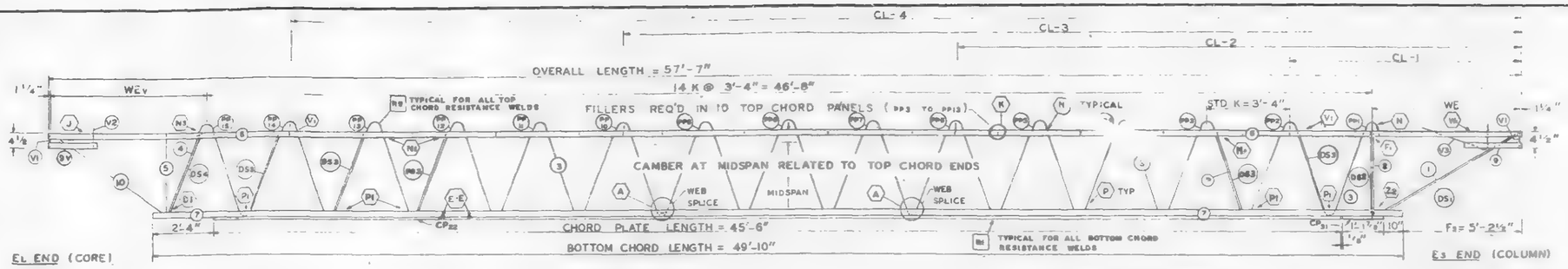
EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "IV" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	"Wc" MK.	TYPE	PCS	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	(S) DOUBLE (RECD) ST MK.	TYPE STEEL	LENGTH
	C32T39C-598	9	A242	2"x1 1/2"x.37	1'-6"	6'-8 1/4"	10	A242	1.14	5'-5 1/2"	5	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-0"	4	A242	.75	2'-9 1/8"	—	—	—	—	3	A242	.92	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A&B

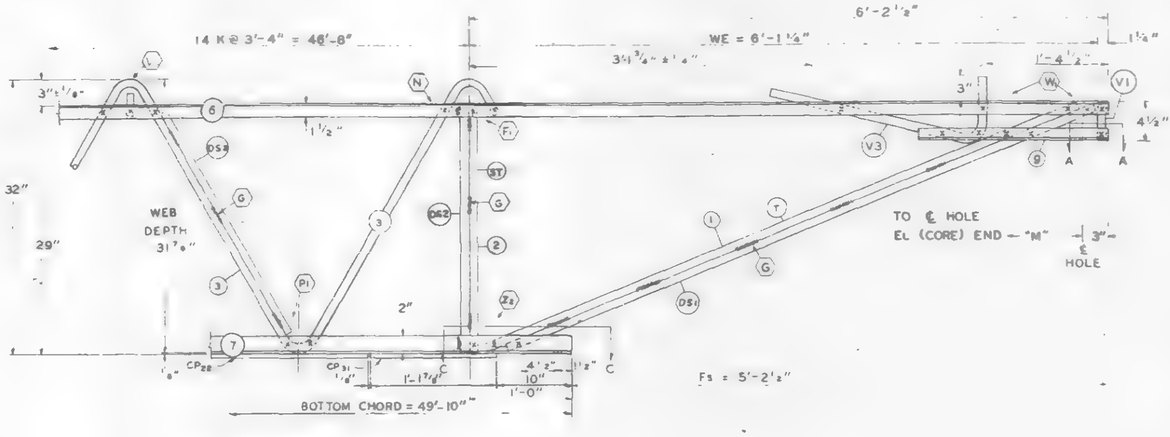
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: _____ FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY: LACLEDE STEEL CO. FOR FABRICATOR DATE
DETAILED BY: A.C. WEBER

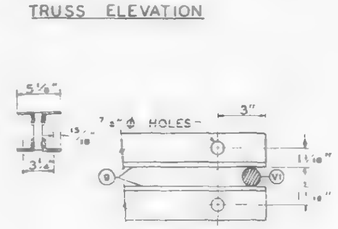
DESIGN DRAWING NO.: 7-A81-35 PLATE
DRAWN BY: [illegible] DATE: MAY 8, 1969
CHECKED BY: T.W. [illegible] DATE: MAY 8, 1969
FABRICATION CONT. W.T.C. 221
IN CHARGE OF PROD. DEV.
SHEET ST239C



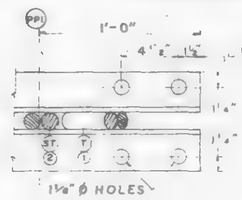
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 5/8"
DESIGN DEPTH	29"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

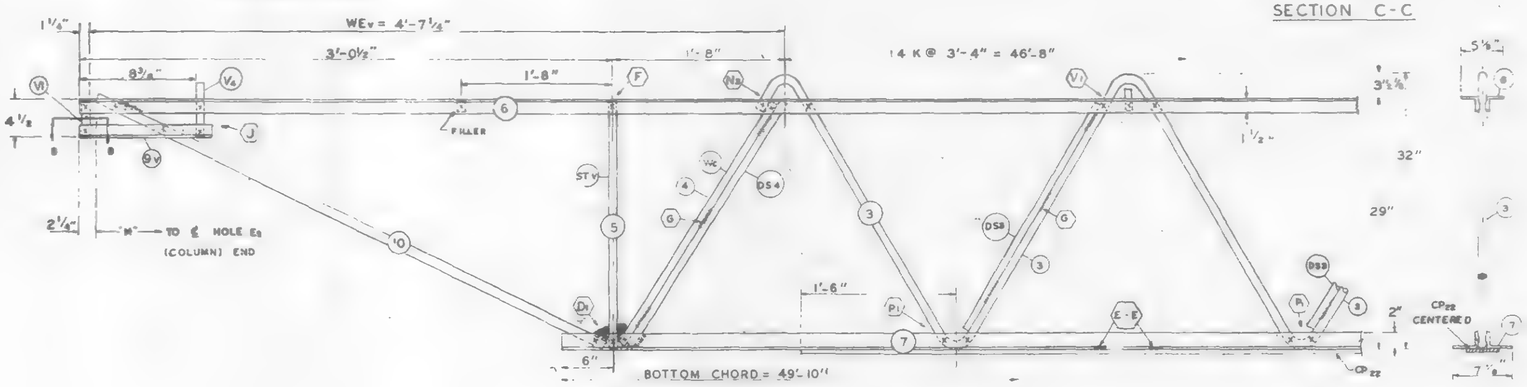


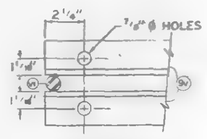


ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (RI)(RII)(RIII)
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. RI



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS





VOID

True length not reqd

SCHLLING-HELLE CHRISTIANSEN ROBERTSON Structural & Civil Engineers
Drawing No. 3K

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-35	1-8-87
7-AB4-50	8-1-88
7-AB3-41	1-6-88
7-AB1-53	7-22-88

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER	"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.	NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T39P 577	6	A242	2"x1½"x.37	57'-7"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1⅛"	14 @ 3'-4"=46'-8"	11	1.14	57'-1¾"	4	1.14	3"	CP22	A36	6½"x1½"	45'-6"	DS2	A242	.75	2' 4⅞"	CP31	A36	6½"x1½"	1'-1⅞"

COLUMN END Es END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V3 TYPE STEEL	MK. V3 DIA.	MK. V3 LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T39P 577	9	A242	2"x1½"x.37	2'-3"	6'-1⅛"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.

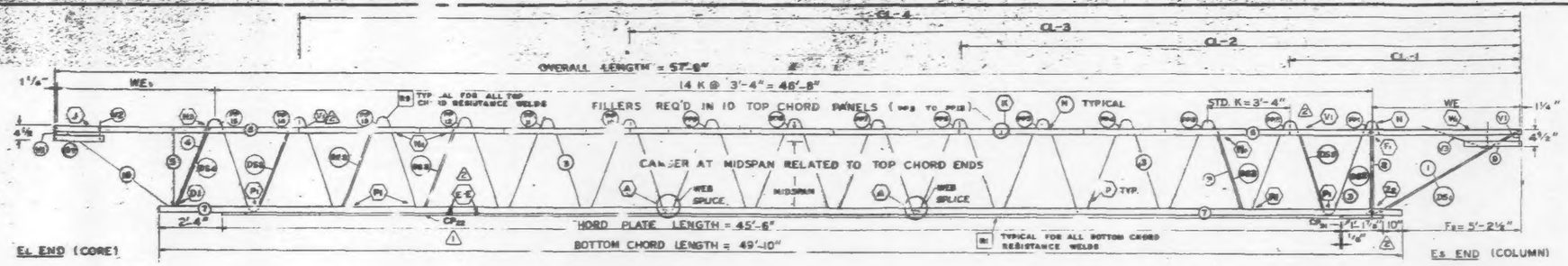
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Es
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "W" STRUT				VERTICAL "SV" STRUT				END STIFFENER									WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				(S) DOUBLE (REQD)			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	RM	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	LENGTH
	C32T39P 577	9	A242	2"x1½"x.37	10'-⅛"	4'-7 1/8"	10	A242	1.14	3'-8½"	5	A242	1.14	2'-4 1/8"	A242	1.14	4⅜"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	2'-9	A242	.75	2'-9 1/8"	—	—	—	—	DS2	A242	.92	2'-1 3/16"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

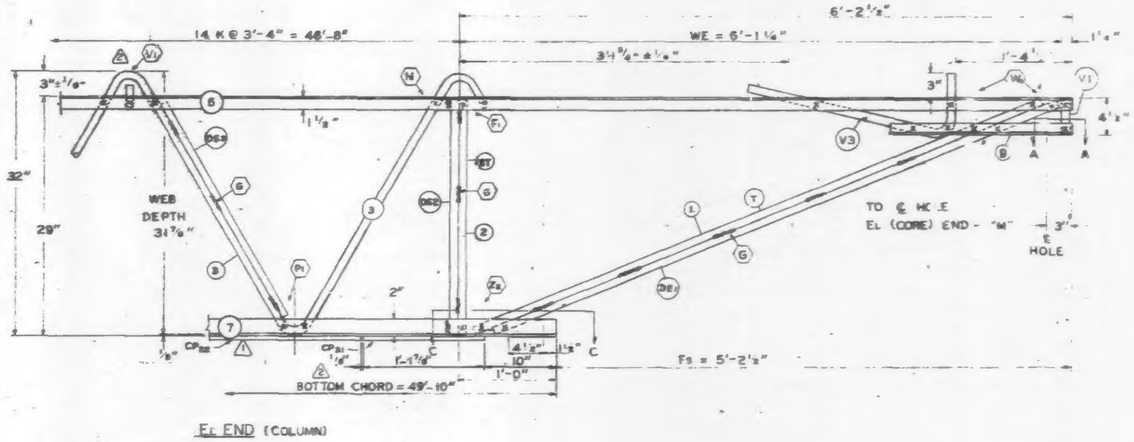
FLOOR TRUSS C32T39P — 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

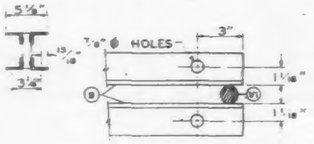
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A. DATE ____
APPROVED FOR FABRICATION BY: ____ FOR FABRICATOR DATE ____
DETAILED: ACLED
DESIGN DRAWING NO. 7-AB-35
DRAWN BY: ____ DATE: MAY 6, 1988
CHECKED BY: T.M.SENDA DATE: MAY 6, 1988
FABRICATION CONT. NO. W.T.C. 221
PLATE
IN CHARGE OF PROD. DEV.
SHEET NO. ST239P



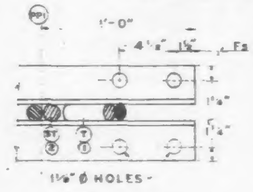
TRUSS ELEVATION

	CAMBER	ELEVATION
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

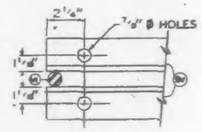


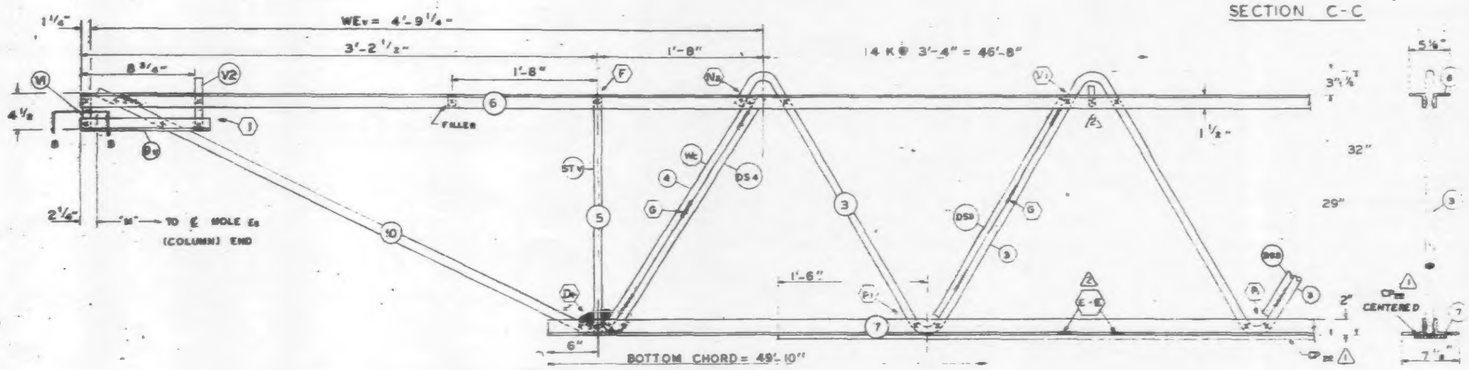


ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (WWWW)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie. [R]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.





NO.	DATE	REVISION	BY
2	2-18-69	WELD DETAILS - BEARING ANGLE SIZE	L.J.M.
1	1-31-69	AS NOTED	G.B.C.

REF DRWG.

7-AB1-35	1-8-67
7-AB4-30	8-1-68
7-AB3-41	1-6-68
7-AB-38	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		"M" ℄ HOLES	CONNECTION FILLERS (2)			CHORD PLATE			DOUBLE STRUT				CHORD PLATE (2)		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T39N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3⅜"	4	1.14	3"	CP 32	A36	6½"x1"x"	45'-6"	DS 2	A242	.75	2'-4⅞"	CP 31	A36	6½"x½"	1'-1⅞"

	Es END	TRUSS DESIGNATION	BEARING ANGLES (2)				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENE							DOUBLE STRUT			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	DIA	LENGTH
COLUMN END		C32T39N-579	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	.4	2'-9½"				3	A242	1.14	8'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6⅛"	5'-2½"

	El END	TRUSS DESIGNATION	BEARING ANGLES (2)				WEv	DIAGONAL "D" STRUT (2)				VERTICAL "ST" STRUT				END STIFFENER									WEB "WC"				DOUBLE STRUT				DOUBLE STRUT				(5) DOUBLE (REQD) STRUT			
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	MK. V1 DIA.	MK. V1 LENGTH	MK. V2 TYPE STEEL	MK. V2 DIA.	MK. V2 LENGTH	MK. V4 TYPE STEEL	MK. V4 DIA.	MK. V4 LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
CORE END		C32T39N-579	9	A242	2"x1½"x.37	10"	4'-9¼"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"	A242	.75	2'-9½"	—	—	—	—	8	A242	.92	2'-8¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N. Y. C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB-38 PLATE -

APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE: 7/24/69

DRAWN BY: E.S. DATE: JAN. 20 1969

APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE:

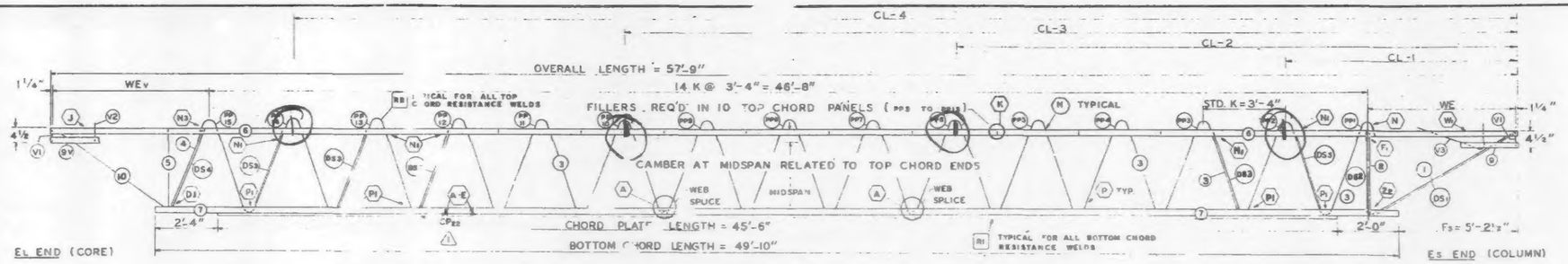
CHECKED BY: T.M.CHENA DATE: JAN. 21 1969

DETAILED BY: LACLEDE STEEL CO.

FABRICATION CONT. NO. W.T.C. 221

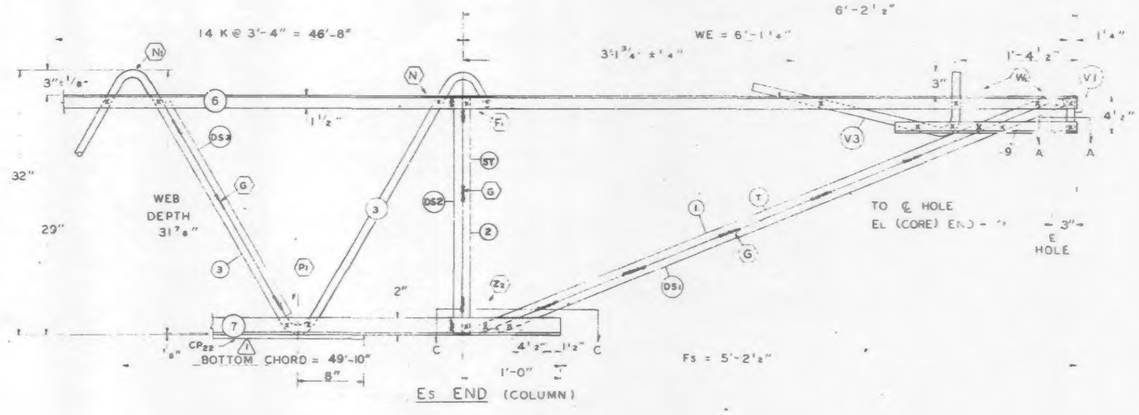
IN CHARGE OF DESIGN: M.V.

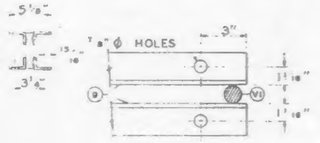
SHEET NO. ST238N



TRUSS ELEVATION

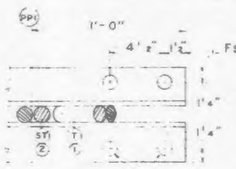
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





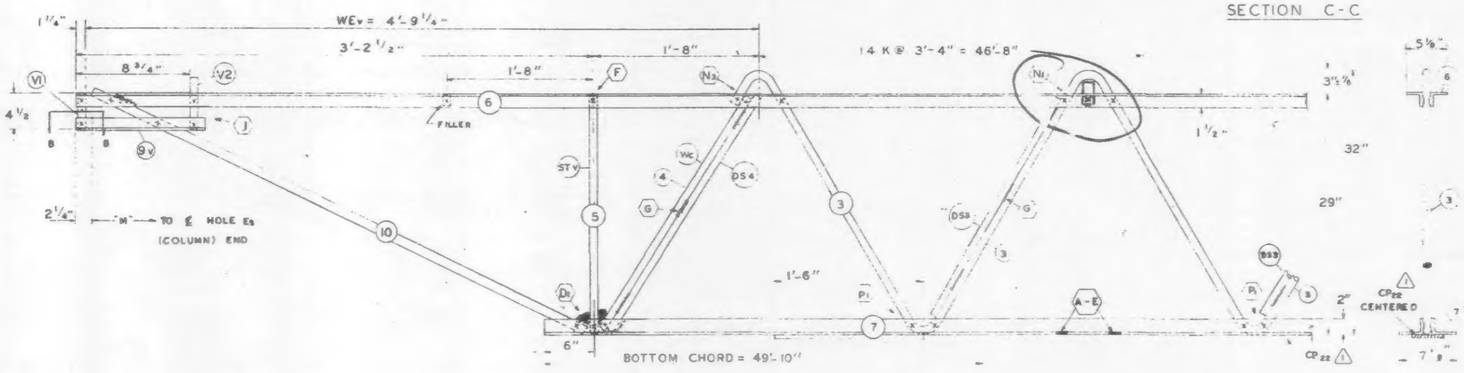
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST289.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS TO (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. (R1)

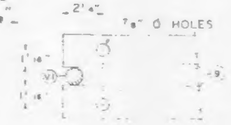


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C.

REF DRWG.

7-AB1-35	1-8-67
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T39N-579	6	A242	2"x1'-½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	4	1.14	4	CP22	A36	6½"x1½"	45'-6"	DS2	A242	.75	2'-4⅞"

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
COLUMN END Es END	C32T39N-579	9	A242	2"x1'-½"x.25	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6-3⅛"

	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				E. STIFFENER MK V1			MK V2			MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(S) DOUBLE (REQD) STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
CORE END EL END	C32T39N-579	9	A242	2"x1'-½"x.25	10"	4'-9¼"	10	A242	1.14	3'-7⅜"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-6¾"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5-2½"

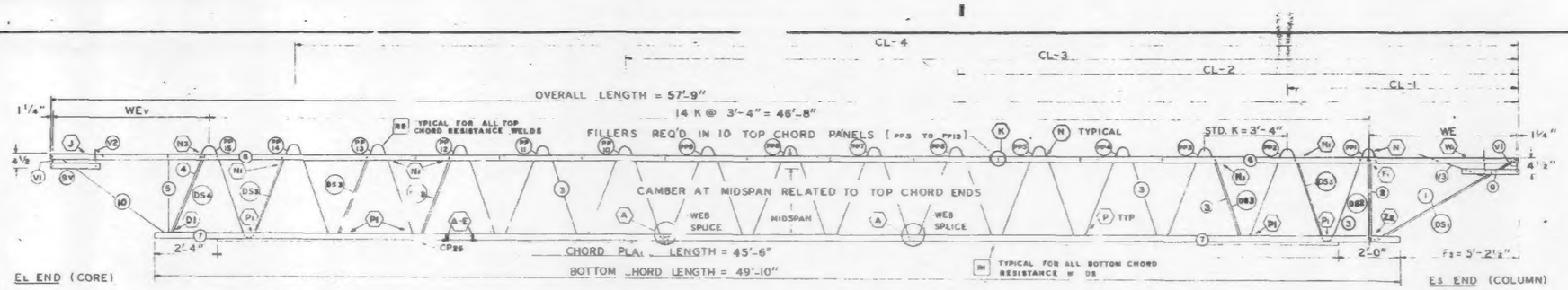
2/4/69 SJC

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

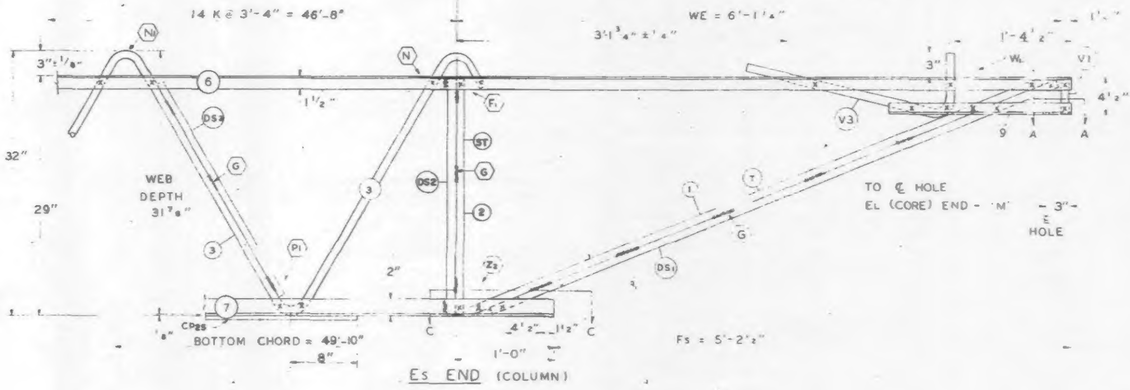
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY FOR PONYA — DATE
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR — DATE
DETAILED BY A.C. WEBER

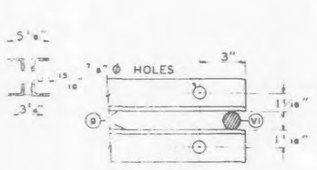
DESIGN DRAWING NO 7-AB1-35 PLATE
DRAWN BY E.A. DATE JAN 20 1969
CHECKED BY T.W.CHURA DATE JAN. 21, 1969
FABRICATION CONT NO WTC 221
IN CHARGE OF PROD. DEV.
SHEET NO ST239N



TRUSS ELEVATION

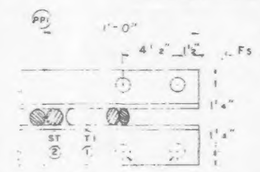
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3 8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4





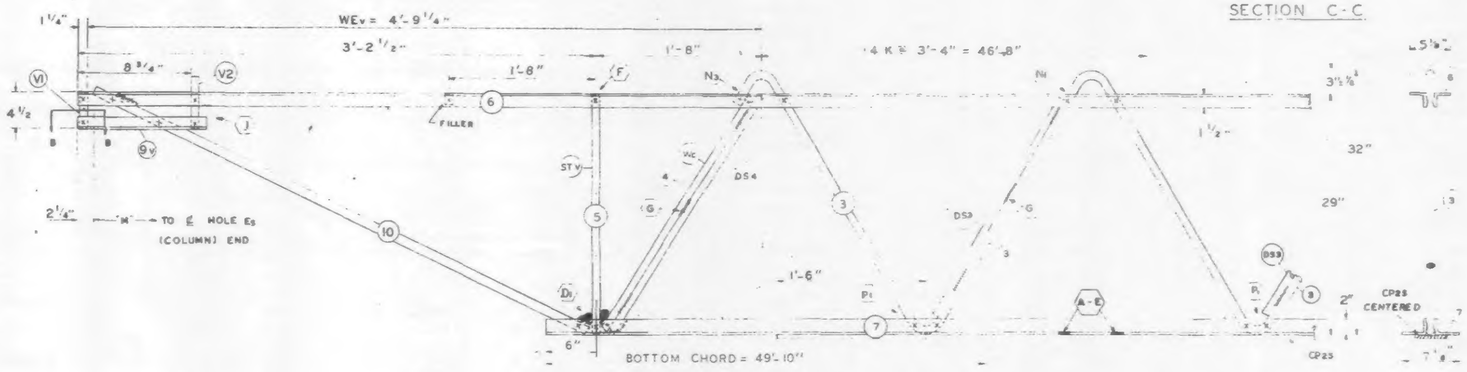
SECTION A-A

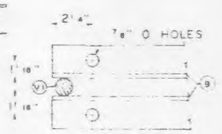
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (\\\\\\)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST288.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. [R1]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.

SECTION C-C





SECTION B-B

Void

REF DRWG.		
7-ABI-35	1-6-67
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-ABI-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	D'S	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T39N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x 2"x .37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	—	—	—	CP2S	A36	6"x.375	45'-6"	DS2	A242	.75	2'-4⅞"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V3 TYPE STEEL	MK V3 DIA	MK V3 LENGTH	MK	TYPE STEEL	DIA	LGTH.
		C32T39N-579	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER								WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(5) DOUBLE (REQD) STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	MK V1 DIA	MK V1 LENGTH	MK V2 TYPE STEEL	MK V2 DIA	MK V2 LENGTH	MK V4 TYPE STEEL	MK V4 DIA	MK V4 LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T39N-579	9	A242	2"x1½"x.25	10"	4'-9¼"	10	A242	1.14	3'-7⅜"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	1.14	7⅝"	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-6⅜"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39N 57'-9" OVERALL

WORLD TRADE CENTER TOWERS A&B

FABRICATION BY: LACLEDE STEEL COMPANY

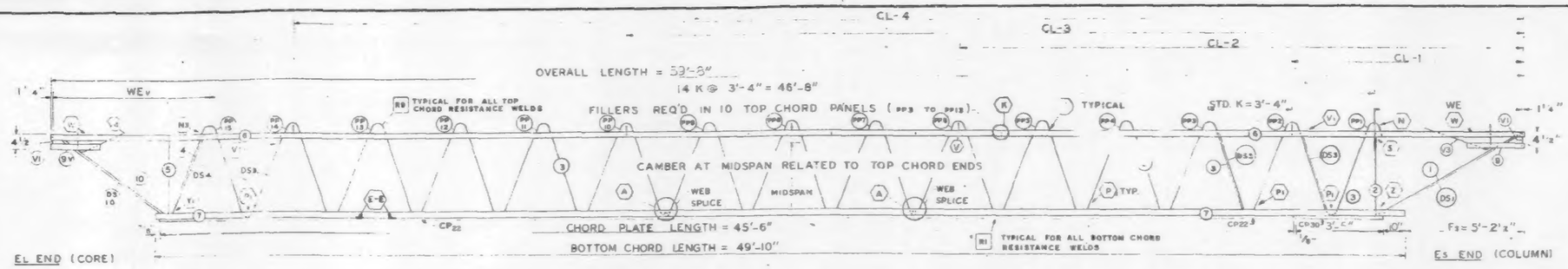
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-ABI-35 PLATE

APPROVED FOR FABRICATION BY _____ FOR P.O.N.Y.A. DATE _____
DRAWN BY S.A. DATE JAN 20 1969

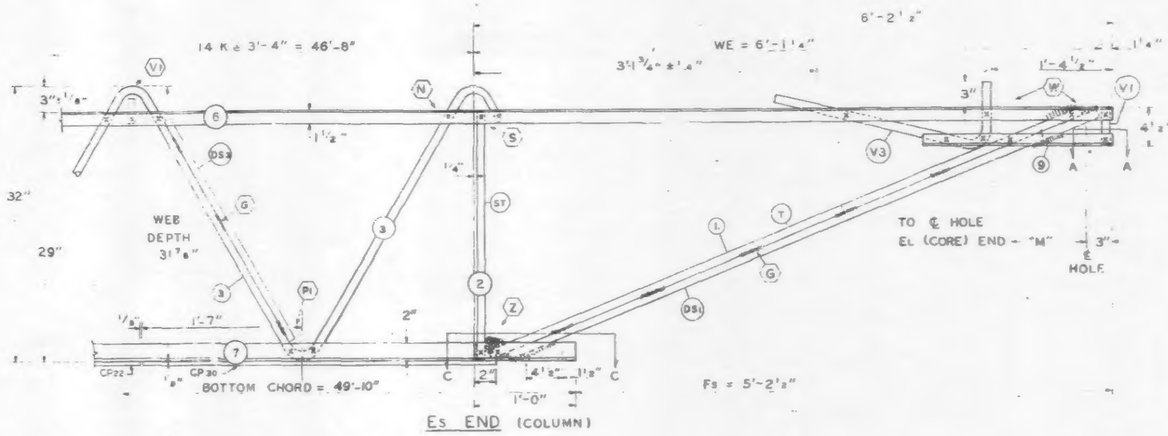
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE _____
CHECKED BY T.W.CHUMA DATE JAN. 21, 1969 IN CHARGE OF PROD. DEV.

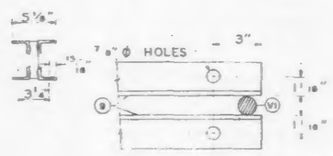
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO. ST39N

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

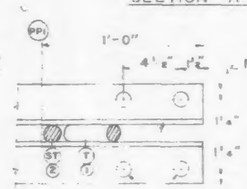


TRUSS ELEVATION



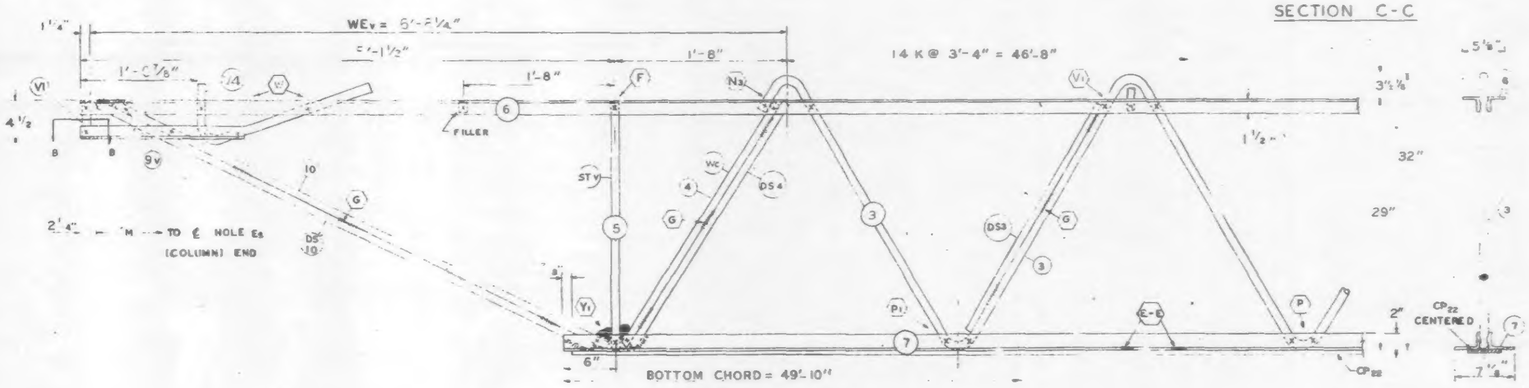


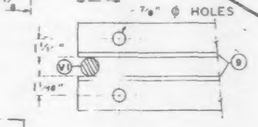
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (TOWING)
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. [R1]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS

VOID





Truss length not reqd

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-28	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
REG NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		NC	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T40C 598	6	A242	2"x1 1/2"x.37	59'-3"	7	A36	3"x 2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	5 @ 2-3/4"	4	1.14	3"	CP 22	A36	6 1/2" x 1 1/2"	45'-6"	CP 30	A36	6 1/2 x 50	3'-5"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
Es END		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T40C 598	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/8"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			WEB "Wc"				DOUBLE STRUT				DOUBLE STRUT				(3) DOUBLE STRUT (REQ'D)			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGT	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T40C 598	9	A242	2"x1 1/2"x.37	1'-6"	6'-2 1/8"	10	A242	1.14	5'-4 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8" -				A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'	DS 8	A242	.92	2'-9 1/8"	DS 10	A242	.92	5'-4 1/4"	DS 8	A242	.92	2'-6 3/4"

STEEL TRUSS - DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T40C 59'-8" OVERALL

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB-36	PLATE
APPROVED FOR FABRICATION BY: ____ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: APRIL 29, 1969	
APPROVED FOR FABRICATION BY: ____ FOR FABRICATOR	DATE	CHECKED BY: T.N.CHUNA DATE: APRIL 29, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST240C